

## **Forsmark site investigations**

### **Sampling and analyses of surface waters**

#### **Results from sampling in the Forsmark area, March 2002 to March 2003**

Ann-Chatrin Nilsson, Geosigma AB

Sara Karlsson, Studsvik Eco & Safety AB

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May 2003

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This report concerns a study which was conducted in part for SKB. The conclusions and viewpoints presented in the report are those of the authors and do not necessarily coincide with those of the client.

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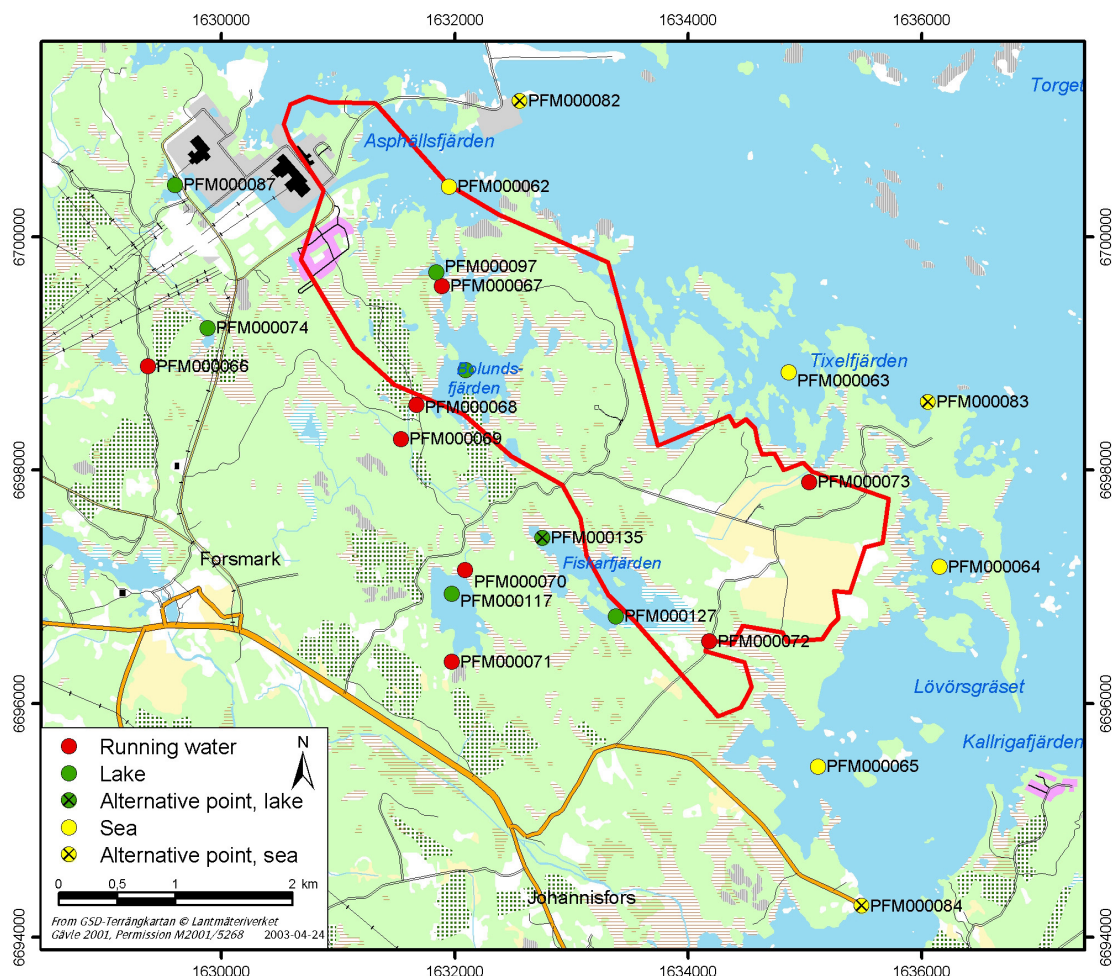
# 1 Introduction

This document reports the data obtained by surface water sampling and chemical analyses performed within the site investigation at Forsmark.

The activity is part of the geochemistry as well as the surface ecosystem programs. The surface water activity includes chemical analysis of water from lakes, running waters and shallow bays in the Forsmark area. Measurements of some physical parameters are also included.

Data from the field measurements are stored in the database SICADA directly after each field activity. The chemical analysis results are stored when delivered from the consulted laboratories. In this report field measurement data and chemical analysis data are included from the start in March 2002 until March 2003.

The sampling points are shown in Figure 1-1.



*Figure 1-1. Sampling points in the surface water program. Points marked with crosses are alternatives for regular points (see Table 4-1).*

## 2 Objective and scope

In order to characterise the surface water of the area, sampling was performed in lakes, running waters and shallow bays within and in connection to the investigation area. The activity includes water sampling for chemical laboratory analysis as well as field measurements of physical parameters.

Two different sampling programmes were performed, a main program and an extended program. The later one which includes additional parameters was performed four times during the period. In the extended program the number of parameters differs somewhat between running waters and lakes/bays (see Table 2-1). The main program was performed 15 times during the period. At the first sampling occasion, archive samples of 5 L were taken at each location. The surface water sampling occasions during 2002 are given in Table 2-2.

**Table 2-1. Parameters analysed in the main and the extended program, respectively.**

Program type	Parameters, laboratory analyses	Parameters, field measurements
Main program	Main components; cations (Na, K, Ca, Mg, Si, Li, Sr) and anions (Cl, SO <sub>4</sub> , F, Br), S <sub>tot</sub> , pH, conductivity, alkalinity, TOC, DOC/DIC, nutrient salts (NH <sub>4</sub> , NO <sub>2</sub> +NO <sub>3</sub> , Tot-N, PO <sub>4</sub> -P, Tot-P), silicate, Tot-N, Tot-P, chlorophyll a and c <sup>1</sup> , Pheophytin <sup>1</sup> , PON, POP, POC, oxygen, HS <sup>-2</sup>	Water temperature, Oxygen, pH, conductivity, salinity, Light <sup>1</sup> , Turbidity <sup>1</sup> , Water flow <sup>3</sup> , Water depth, water transparency <sup>1</sup>
Extended program, running waters	Analyses according to main program (except chlorophyll a and c and Pheophytin) and: Main components; cations (Fe, Mn) and anions (I), environmental metals (Al, As, Ba, B, Cd, Co, Cr, Cu, Hg, Mo, Ni, P, Pb, V, Zn), nutrient salts (NO <sub>2</sub> , NO <sub>3</sub> ), Fe(II), Fe(tot), <sup>3</sup> H, <sup>37</sup> Cl, deuterium, d <sup>18</sup> O, <sup>10</sup> B, <sup>87</sup> Sr, <sup>34</sup> S, <sup>13</sup> C, PMC	Water temperature, Oxygen, pH, conductivity, salinity, Light <sup>1</sup> , Turbidity <sup>1</sup> , Water flow <sup>3</sup> , Water depth, water transparency <sup>1</sup>
Extended program, lakes and bays	Analyses according to extended program, running waters and: Lanthanides (Sc, Rb, Y, Zr, I, Sb, Cs, La, Hf, Tl, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, U, Th), Chlorophyll a and c, Pheophytin, Isotopes of U, Th, Ra and Rn	Water temperature, Oxygen, pH, conductivity, salinity, Light <sup>1</sup> , Turbidity <sup>1</sup> , Water flow <sup>3</sup> , Water depth, water transparency <sup>1</sup>

<sup>1</sup> Not in running waters

<sup>2</sup> At reducing conditions

<sup>3</sup> Only in running waters

**Table 2-2. Surface water sampling occasions during the period March 2002–March 2003.**

<b>Year</b>	<b>Month</b>	<b>Week</b>	<b>Program type*</b>
2002	March	12	M
2002	April	14, 16, 18	M, E, M
2002	May	20, 22	M, M
2002	June	24, 26	M, M
2002	July	29	E
2002	August	33	E
2002	September	36, 38, 40	M, M, M
2002	October	42, 44	E, M
2002	November	46, 48	M, M
2002	December	51	M
2003	January	3	E
2003	February	8	M
2003	March	12	M

\*M=main program, E=extended program

## **3 Equipment and facilities**

### **3.1 Description of equipment**

Water samples were collected using a “Ruttner sampler”. At the extended sampling occasions the sampler was washed in acid before use.

Measurements were initially performed with equipments measuring only one single parameter each, but during the year, two measuring sonds were bought. The smaller one, YSI 600 QS, measures pH, water temperature, oxygen, redox potential, conductivity, salinity and barometric pressure, and the larger one, YSI 6600, measures all the listed parameters above as well as turbidity, chlorophyll and PAR (Photosynthetic Active Radiation). The smaller sond was used for the first time during week 0236. During week 0246 the larger sond was also available and from then on the smaller one was used in running waters and the larger one in lakes and in the sea.

Water transparency was estimated using a Secchi disc and aquascope.

### **3.2 Facilities for sample handling and analyses**

When the surface sampling activity started in March 2002 the facilities and equipment available for sample preparations, on site analyses (alkalinity, pH and electric conductivity), as well as sorting and packing sample bottles before delivery to different consulted laboratories, were limited and primitive. The facilities have been improved successively since then. The following facilities are now available and are used not only for the surface water sampling activity but for all water sample preparations and water analysis work:

- A small house inside the core mapping accommodation (“Lentab-hallen”) is used for work that has to be carried out in a very clean surrounding like analyses, division of samples into sample portions, filtering and acid additions.
- Part of the core mapping accommodation is reserved for hydrochemical work and equipped with long benches for sorting and packing sample bottles, cupboards for storing bottles, chemicals and other articles, two refrigerators and a freezer for storing samples and reagents. Water and nitrogen gas are available.
- Freeze container for storage of archive samples.
- Laboratory wagon with analytical instruments, vent hood and system for deionised water.

## 4 Performance

The method for sampling and analyses of surface waters is described in SKB MD 900.004 (Metodbeskrivning för ytvattenprovtagning vid platsundersökningar). The activity was performed according to Activity plan, SKB AP PF 400-02-07 (SKB internal controlling document). This section deals mainly with some deviations from the Activity plan.

### 4.1 Sampling points and sampling occasions

The regular and alternative sampling points are presented in Table 4-1. It was not always possible to collect samples at all the sampling points, and in Table 4-2 the reasons for deviations from the original sampling scheme are stated.

**Table 4-1. Sampling points and sampling occasions.**

Sampling points	Coordinates (RT90)	Name	Comments
<b>Lakes</b>			
PFM000074	16 29 854, 66 99 393	Labboträsket	
PFM000087	16 29 574, 67 00 617	Gunnarsbo-Lillfjärden	
PFM000097	16 31 814, 66 99 868	Norra bassängen	
PFM000107	16 32 065, 66 99 031	Bolundsfjärden	
PFM000117	16 31 946, 66 97 118	Eckarfjärden	
PFM000127	16 33 350, 66 96 924	Fiskarfjärden	
PFM000135	16 32 722, 66 97 594	Fiskarfjärden	Alternative to PFM000127
PFM000137	16 35 211, 66 98 383	Bredviken	
<b>Shallow sea bays</b>			
PFM000062	16 31 921, 67 00 605	SV Forslingens grund	
PFM000063	16 34 833, 66 99 014	Tixelfjärden	
PFM000064	16 36 121, 66 97 347	Kallriga, norra	
PFM000065	16 35 083, 66 95 635	Kallriga, södra	
PFM000082	16 32 528, 67 01 336		Alternative to PFM000062
PFM000083	16 36 023, 66 98 757		Alternative to PFM000063
PFM000084	16 35 455, 66 94 442		Alternative to PFM000064 and PFM000065
<b>Running waters</b>			
PFM000066	16 29 343, 66 99 064	Öster Gunnarsboträsket	
PFM000067	16 31 859, 66 99 753	Lillputtsundet	
PFM000068	16 31 6 41, 66 98 735	Kungsträsket	
PFM000069	16 31 510, 66 98 440	Bolundsskogen	
PFM000070	16 32 061, 66 97 319s	Norr Eckarfjärden	
PFM000071	16 31 944, 66 96 533	Söder Eckarfjärden	
PFM000072	16 34 151, 66 96 708	Flottbron	
PFM000073	16 35 004, 66 98 073	Söder Bredviken	



**Tables 4-2. Notes/comments and abbreviations. See explanations on next page.**

week/year	12/02	14/02	16/02	19/02	20/02	22/02	24/02	26/02	29/02	33/02	36/02	38/02	40/02	43/02	46/02	48/02	51/02	3/03	8/03	Sum (x)								
<b>Sonds</b>																												
WTW					X	X	X	X	X																			
YSI 600 QS									X <sup>a</sup>					X	X	X												
YSI 6600										X				X	X	b												
<b>Sea</b>																												
PFM000062			F	F	X	X	X	X	X	X	X	X	X	X	X	F	F				14							
PFM000063			F	F	X	X	X	X	X	X	X	X	X	X	X	X	X				16							
PFM000064			F	F	X	X	X	X	X	X	X	X	X	X	X	D	D				14							
PFM000065			F	F	X	X	X	X	X	X	X	X	X	X	X	X	X				15							
PFM 000153					X																1							
PFM000082			X	X												X					5							
PFM000083			X	X																	3							
PFM000084			X	X																	3							
<b>Stream</b>																												
PFM000066			X	X	X	X	X	X	X	E	E	E	E	E	E	X	X				13							
PFM000067			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				19							
PFM000068			X	X	X	X	X	X	X	E	E	E	E	E	E	X	X				18							
PFM000069			X	X	X	X	X	X	X	E	E	E	E	E	E	X	X				18							
PFM000070			X	X	X	X	X	X	X	E	E	E	E	E <sup>h</sup>	E <sup>h</sup>	X	X				12							
PFM000071			X	X	X	X	X	X	X	E	E	E	E	E <sup>h</sup>	E <sup>h</sup>	X	X				12							
PFM000072			X	X	X	X	X	X	X	E	E	E	E	E	X	X	X				15							
PFM000073			X	X	X	X	X	X	X	E	E	E	E	E	E	E	E				7							
<b>Lakes</b>																												
PFM000074			X	X	X	X	X	X	X	X	X	X	X	C	X	C	X				17							
PFM000087			X	X	X	X	X	X	X	X	X	X	X	C	X	C	X				16							
PFM000097			X	X	X	X	X	X	X	X	X	X	X	C	C	C	X				15							
PFM00107			X	X	X	X	X	X	X	X	X	X	X	C	X <sup>9</sup>	C	C				17							
PFM00117			X	X	X	X	X	X	X	X	X	X	X	C	C	C	X				16							
PFM00135			X	X	X	X	X	X	X	X	X	X	X	C	C	C	X				3							
PFM00127			D	D	D	D	D	D	D	D	D	D	D	C	C	C	D				8							
<b>Sum (X)</b>			<b>17</b>	<b>14</b>	<b>16</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>15</b>	<b>14</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>13</b>	<b>11</b>	<b>7</b>	<b>11</b>	<b>12</b>	<b>18</b>	<b>16</b>	<b>15</b>	<b>278</b>

Explanations for the abbreviations used in Table 4-2:

- X: Sample taken
- a): Test session, comparing with WTW-sonds
- b) YSI 6600 on repair
- C: no sample, due to weak ice
- D: no sample, due to sensitive wildlife
- E: no sample, as it was dried out, or too little water to take an representative sample
- F: no sample, due to no boat and/or weak ice
- g): Sample taken on another position, "close by", due to weak ice, only surface sample
- h): Sond measurements were performed and data logged
- i): Mixed water sample from 10 sampling sites in the lake

## **4.2 Water sampling and measurements**

### **4.2.1 Calibrations**

The measurement equipment was calibrated prior to each sampling occasion. The sonds were initially calibrated each day during the measuring campaigns, but starting week 0248 (021125) calibration was performed at the first day only, except for oxygen, which was calibrated every day.

### **4.2.2 Performance of field work**

Details about deviations concerning the field work are compiled in Table 4-3.

**Table 4-3. Notes/comments on measurements/water sampling. See explanations on next page.**

week/year	12/02	14/02	16/02	19/02	20/02	22/02	24/02	26/02	29/02	33/02	36/02	38/02	40/02	43/02	46/02	48/02	51/02	3/03	8/03	
<b>Sonds</b>																				
WTW																				
YSI 600 QS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
YSI 6600										X <sup>a</sup>	X	X	X	X	X	X	b	X	X	
<b>Sea</b>	<b>Alias</b>	<b>Name</b>																		
PFM000062	F4	SV-Forslingen																		
PFM000063	F15	Tixelfjärden																		
PFM000064	F17	Kallrigafjärden																		
PFM000065	F18	V-Högbåden																		
PFM000153		moved to pfm65																		
PFM000082	F20	Alt PFM62	D																	
PFM000083	F21	Alt PFM63	D																	
PFM000084	F22	Alt PFM64,65	D																	
<b>Stream</b>																				
PFM000066	F1	Ö-Gunnarsbo																		
PFM000067	F6	Lillputtsundet	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
PFM000068	F8	Kungsträsket																		
PFM000069	F9	Bolundsskogen																		
PFM000070	F10	N-Eckarfjärden																		
PFM000071	F12	S-Eckarfjärden	H	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
PFM000072	F14	Flottbron	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
PFM000073	F19	S-Bredviken																		
<b>Lakes</b>																				
PFM000074	F2-100	Labboträsket	Q,R																	
PFM000087	F3-100	Gunnarsbo-Lilifj	Q,R																	
PFM000097	F5-2	Norra bassängen	Q,R																	
PFM00107	F7-100	Bolundsfjärden	Q																	
PFM00117	F11-100	Eckarfjärden	Q,R																	
PFM00135	F13-9	Fiskarfjärden, alt	R																	
PFM00127	F13-100	Fiskarfjärden	R																	

Explanations for the abbreviations used in Table 4-3:

- a): Test session, only comparing data with WTW-sonds
- b): YSI 6600 not used – repair, no logged data for Turbidity, Chlorophyll and PAR
- C: Minor sond problem – but data logged
- D: Water transparency estimated without aquascope.
- E: Very low water level, sample taken, but risk to get particles/contamination in the sample
- F: No flow estimation
- G: No flow, nearly dried out, sample taken in small “pond”
- H: Stagnant water or nearly stagnant water – no flow estimation, flow approx 0 m<sup>3</sup>/s
- I: Wrong depth values logged in YSI 6600 – reason probably freezing sensor
- J: Unlogic PAR-values in one or several depths caused probably by shadow from boat
- K: Sample taken at another position, “close by”, due to weak ice, only surface sample.
- L: Unlogic sonddata probably due to freezing sensors
- M: Transect data logged more shallowly than usual due to low water
- N: No water transparency estimated due to darkness. PAR-values uncertain due to darkness
- O: Risk for contamination from melting icewater, mainly in surface samples
- P: PAR-value should be rejected – too shallow to get the sensor under water
- Q: Mixed water sample from 10 sampling sites in the lake.
- R: No water transparency estimated
- S: Negative redox values despite presence of oxygen
- T: PAR 0-values couldn't be estimated just below surface due to thick ice
- U: Negative Turbidity values

### 4.3 Sample preparation and chemical analyses

An overview of present sample preparation routines, analytical methods and consulted laboratories is given in Appendix 1, Table A1-1 and A1-2. Some of the analyses were performed by other laboratories when the sampling program/activity started. The changed laboratories are listed in Table A1-3. Reporting limits and measurement uncertainties are given in Table A1-4. Some of the sample treatment routines have been improved during the time period in question as described below:

- Environmental and trace metals:

When the sampling program started in March 2002 it was considered desirable to avoid filtering of the samples outdoors in the field (too labour-demanding), and the water portions for ICP analyses were filtered and acidified after return to the location for sample preparation and packing. Later on, starting in September, it was found safer from contamination aspects to do the filtering outdoors at the sampling occasion. Disposable filters, disposable syringes and bottles prepared with acid were from now on used in the field.

- DOC and DIC:

Quite a number of the DOC (Dissolved Organic Carbon) values were found to be higher compared to the corresponding TOC (Total Organic Carbon) values for the same samples. A change-over from filtering of the DOC/DIC sample portions after the return from field to filtering immediately outdoors using disposable filters and disposable syringes was done in order to exclude the sample handling as a reason for the inconsistent results.

- Particulate nitrogen, phosphorous and carbon:

When the sampling program started, the facilities for sample preparation was very limited and the filtering for the determinations in question was therefore performed by the consulted laboratory. The sample bottles were stored cold (not freezing) and dark and were delivered to the laboratory the day after the sampling occasion. Suitable location and filtering equipment was available by the end of May 2002.

## 4.4 Data handling

### 4.4.1 Field measurement data

The data from field measurements are incorporated in SICADA directly after termination of the activity. A number of protocol versions have been used, as improvements have been successively incorporated during the period. From week 0251 the data files from the instruments were modified. A specific excel-macro was developed and the data files were then incorporated digitally into SICADA.

### 4.4.2 Chemical analyses data

The following routines for quality control and data management are generally applicable for hydrochemical data, independent of sampling method or sampling object.

Several components are determined by more than one method and/or laboratory. Moreover, control analyses by an independent laboratory are performed routinely on each fifth or tenth collected sample.

All analytical results are stored in the SICADA database. The applied hierarchy path Hydrochemistry/Hydrochemical investigation/Analyses/Water in the database contains two types of tables, raw data tables and primary data tables (final data tables).

Data on *basic water analyses* are inserted into raw data tables for further evaluation. The evaluation results in a final reduced data set for each sample. These data sets are compiled in a primary data table named “water\_composition”. The evaluation is based on:

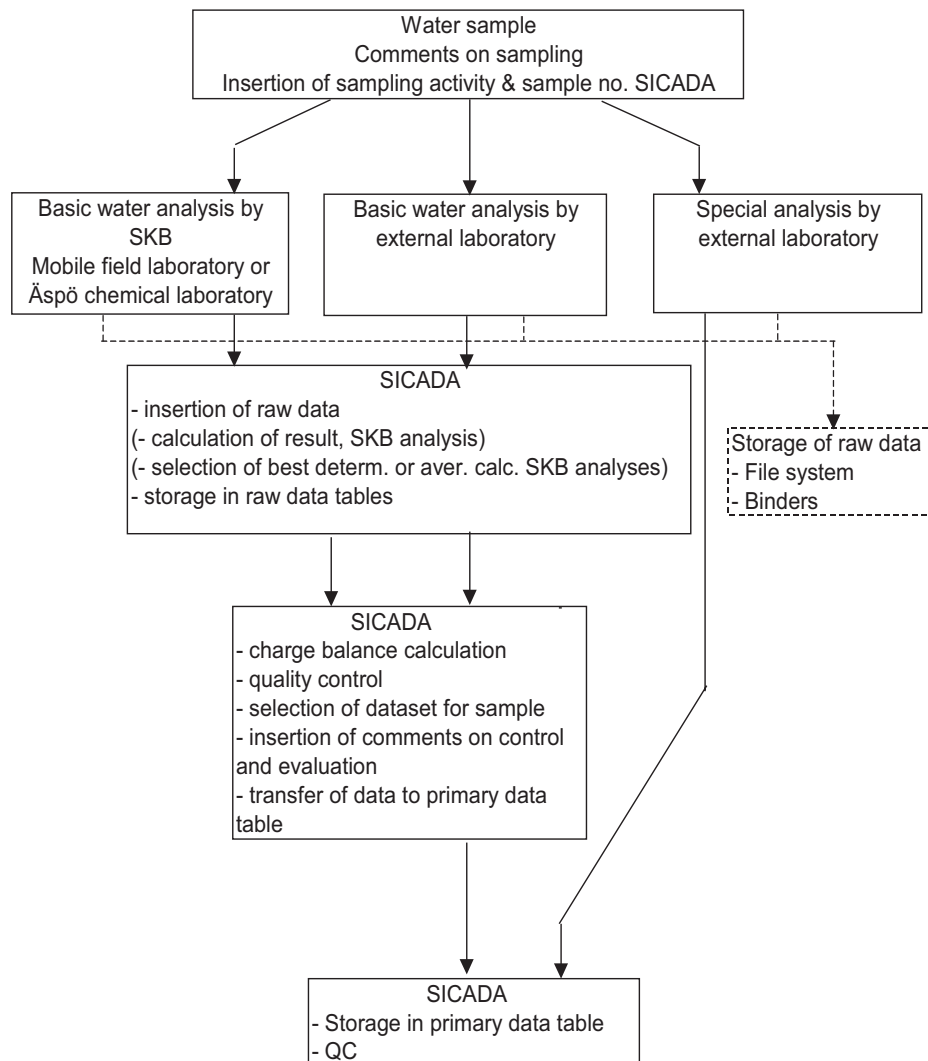
- Comparison of the results from different laboratories and/or methods. The analyses are repeated if a large disparity is noted (generally more than 10%)
- Calculation of charge balance errors. Relative errors within  $\pm 5\%$  are considered acceptable (in surface waters  $\pm 10\%$ )

$$\text{Rel. error (\%)} = 100 \times \frac{(\sum \text{cations(equivalents)} - \sum \text{anions(equivalents)})}{(\sum \text{cations(equivalents)} + \sum \text{anions(equivalents)})}$$

- General expert judgement of plausibility based on earlier results and experiences

All results from “*biochemical*” components and special analyses of trace metals and isotopes are inserted directly into primary data tables. When analyses are repeated or performed by more than one laboratory, a “best choice” notation will indicate those results which are considered most reliable.

An overview of the data management is given in Figure 4-1.



*Figure 4-1. Overview of data management, chemical analysis results.*

#### 4.4.3 Other relevant information and data

Some parameters are not measured with instruments. Those data can be found in a separate table in SICADA together with information about the weather conditions at the sampling occasions. The table is called “Weather\_data” and contains the following columns:

- Air temperature
- Cloudiness
- Precipitation
- Wind velocity
- Wind direction
- Light penetration (lakes and sea)
- Water flow (running waters)
- Snow/ice depth

These data are not presented in this report.

## 5 Results

### 5.1 General

The lakes in the Forsmark area have been studied by the Department of Limnology at Uppsala University during a couple of years. According to their report SKB R-99-68 /2/ Lake Eckarfjärden and Lake Fiskarfjärden can be classified as oligotrophic hardwater lakes. Our results show that this classification is also valid for the other investigated lakes in the area which are all small and shallow, with nutrient poor and highly alkaline water. The lakes are to a large extent surrounded by mires. The term “oligotrophic” refers to the nutrient status of the lake water, meaning nutrient poor. According to the Swedish Environmental Protection Agency (Naturvårdsverket) /3/ oligotrophic lakes are characterized by levels of total phosphorous below 12.5 µg/l and levels of total nitrogen below 300 µg/l (see Table 5-1).

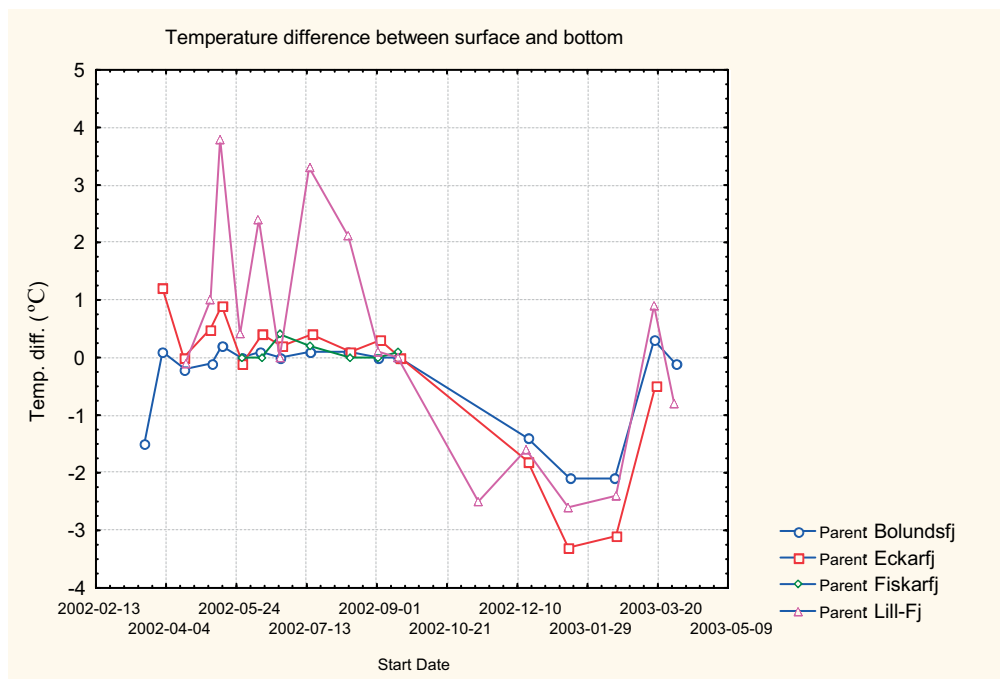
Hard-water lakes occur all over the world, in areas of alkaline sedimentary rocks. These rocks are easily weathered giving rise to alkaline water rich in calcium and many other elements serving as micro-nutrients for the biota. The amount of nutrients transported to the lakes may, however, be effectively reduced due to chemically as well as biologically induced interactions. In oligotrophic lakes, such as those in the Forsmark area, phosphorous is most often the limiting nutrient. The high pH-value, together with low water depth, favors a special aquatic biotic life.

**Table 5-1. Classification of lakes depending on nutrient status, according to Naturvårdsverket /3/.**

Class	Term	Tot-P (µg/l)	Tot-N (µg/l)
1	Oligotrophic	≤12.5	≤300
2	Mesotrophic	12.5–25	300–625
3	Eutrophic	25–50	625–1250
4	Eutrophic	50–100	1250–5000
5	Hypereutrophic	≥100	≥5000

### 5.2 Water profiles

The lakes and sea bays in the area are shallow; the deepest sampling point in the sea is about 5 m whereas the depth at the sampling points in lakes varies between 0.5–2.5 m. *In situ* measurements of different parameters were performed in profiles with interspaces of 0.5 m throughout the water column at each sampling site. Water samples were taken from the surface (0.5 m depth) as well as from approximately 0.5 m above the bottom. Comparisons of data from different depths reveal, with a few exceptions, a non-stratification status of the water, which is not surprising keeping in mind the limited water depth. Temperature stratification may however occur during periods with ice cover. If stratification occurs in the lakes during other periods, it is usually weak and stirring is easily induced by winds. In Figure 5-1 a comparison between water temperature for bottom and surface water respectively is plotted, as an example of this lack of stratification.



*Figure 5-1. Difference between water temperature measured at the bottom and at the surface in four lakes. Stratification of the water occurred during the winter and for Lake Lilljärden also occasionally during the spring.*

The original results are stored in SICADA and data for modelling or other activities should be taken from the database. The data concerning the field measurements can be found with these Field Note numbers: Forsmark 7, 9, 16, 18, 23–25, 33, 36, 40, 43, 48, 51, 53, 65, 66, 83, 102.

## 5.3 Chemical analyses

The results of the chemical analyses are continuously stored in the database SICADA as soon as they are reported from the consulted laboratories. Data available in SICADA 2003-04-01, regarding samples collected before 2003-03-01 are included in this report. For some special analyses, as for example Carbon isotopes, the period between sampling and completed analysis is very long. Therefore, the reported data sets were not quite complete at the end of the investigation period. Missing data will be presented in coming reports.

### 5.3.1 Major components

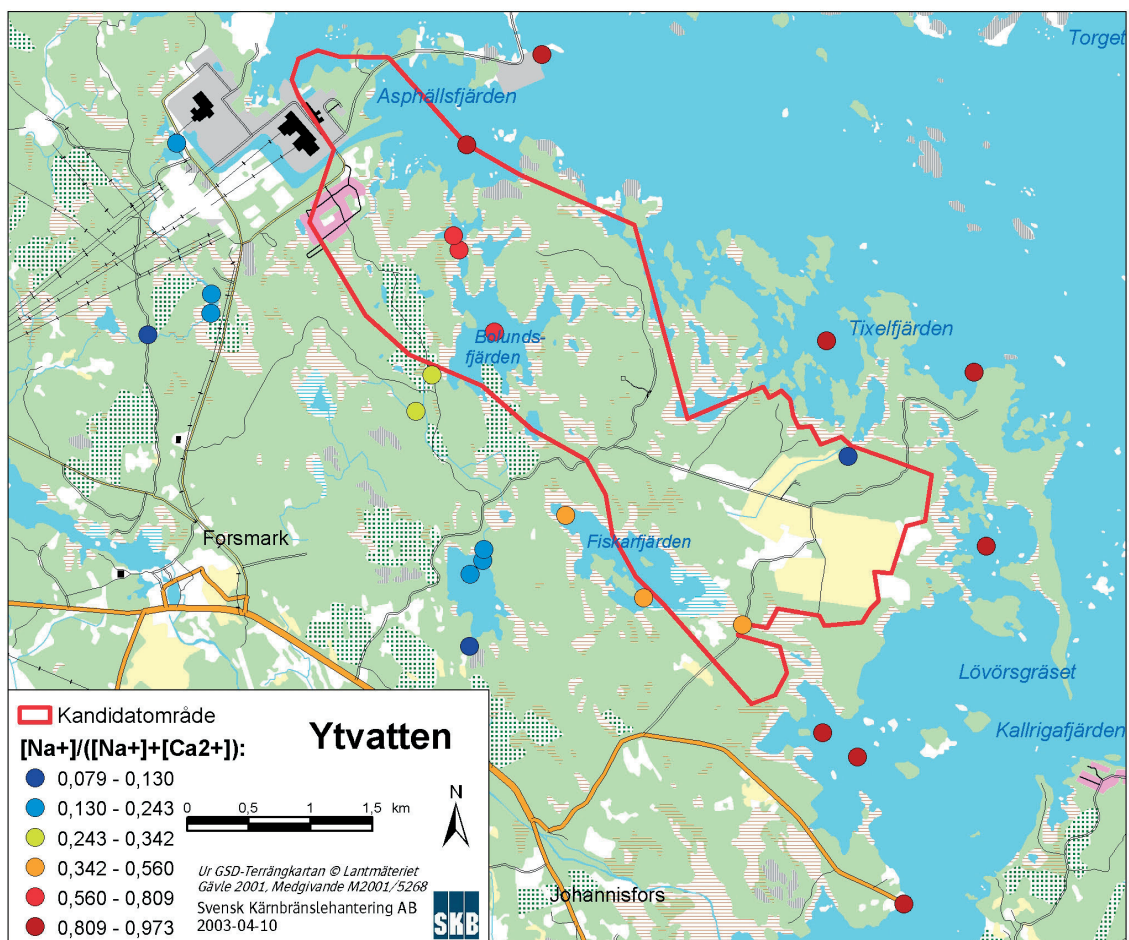
The results of the chemical analyses (major components) of samples collected from March 2002 to March 2003 are compiled in Appendix 3.



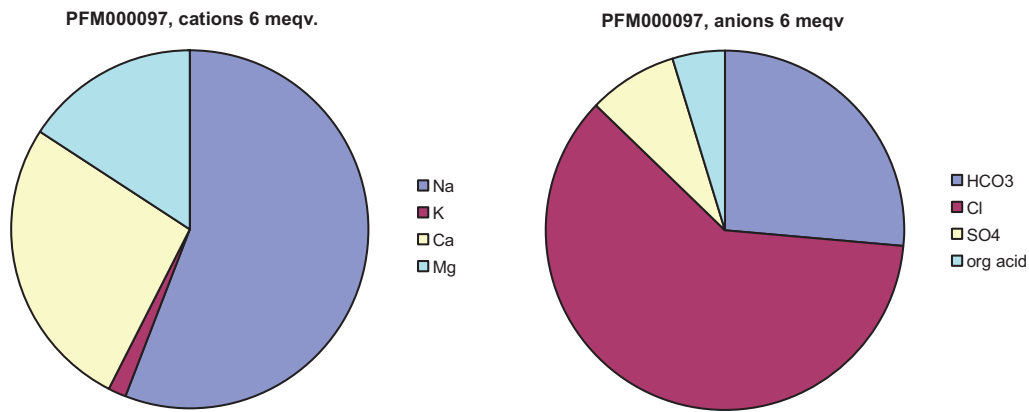
The fresh waters in the Forsmark area are generally well buffered with high alkalinity, high pH and high Calcium concentrations. Further, it is not a very long time ago since the area was lifted up above sea level, and waters recently affected by brackish sea water show high Sodium chloride concentrations. In Figure 5-2 the different character of the waters are represented by a scale from blue to red colour indicating low to high sodium concentrations. The lakes represented by red and orange sampling points were shallow bays less than one hundred years ago.

The high Calcium concentration and the high alkalinity are explained by weathering of limestone rich till prevailing in the area. The Sodium chloride concentration in the lakes and streams varies depending on the recentness of the contact with sea water. North of Bolundsfjärden, the threshold towards the sea is low, and brackish seawater probably still transgresses from time to time.

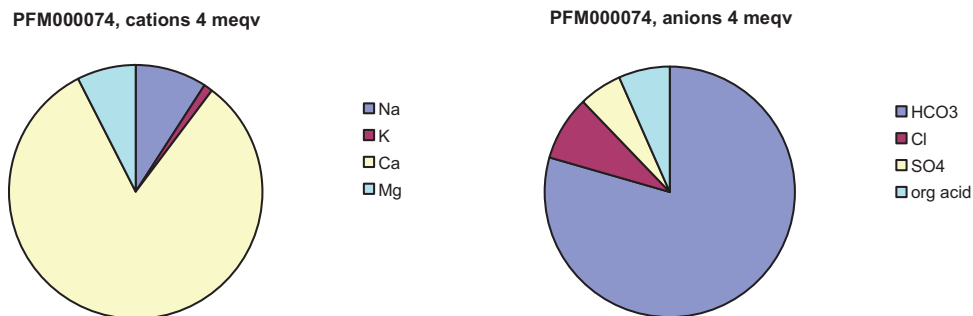
Generally, the amounts of ions in the fresh waters in the area are very high, especially the Sodium chloride type of waters. The circle diagrams below show the proportions of different major ions in lake water with a high sodium content (Figure 5-3) and in lakes with a more normal sodium concentration (Figure 5-4). The proportions of major ions in a lake situated in the Simpevarp area are given as a comparison (Figure 5-5). In this surface water with a low amount of ions, the organic acids constitute about one third of the negatively charged ions.



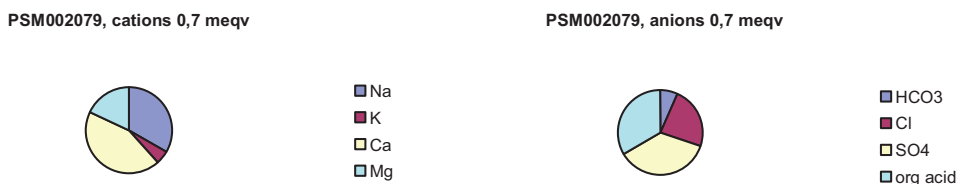
*Figure 5-2. Overview of sampling points. Type of water is indicated by a scale from blue to red for waters with low and high Sodium concentration, respectively.*



**Figure 5-3.** Example of ion charge balance in a lake in the Forsmark area periodically affected by sea water (Norra Bassängen).



**Figure 5-4.** Example of ion charge balance in a lake in the Forsmark area with no recent contact with sea water (Labboträsket).



**Figure 5-5.** Example of ion charge balance in a surface water with a low amount of ions, i.e. from a low-alkaline area. The diagrams are enlarged almost twice compared to the scale applied in Figures 5-3 and 5-4 (Kvarnstugan, streaming water).

The brackish sea water sampled close to land in the Forsmark area display for sea water typical proportions of the major components, except for the Calcium to Chloride factor, se Table 5-1. The proportions of major components are known to be practically the same in all sea water, independent of if the salt content is high or low (in the Atlantic ocean as well as in the Baltic sea) /4/ /5/. The high and varying Calcium to Chloride factor in the brackish sea water around Forsmark is probably due to the fact that the sampling points are all situated close to land and affected by discharge of fresh water with high Calcium concentrations. Besides Calcium, the calculated proportions deviate less than  $\pm 10\%$  from literature values for the Baltic Sea. These smaller deviations are not significant and can be explained by the size of the analytical error.

**Table 5-1. Proportions of major ions in sea water and brackish water (literature values and results from the surface water sampling activity in Forsmark)**

Proportions	Ocean water /4/	Brackish water, the Baltic sea /4/	“PLU results”, brackish water, coastline outside Forsmark candidate areaAver. and stdev. of 122 samples
Na/Cl	0.556	0.556	0.550 ± 0.032
SO <sub>4</sub> /Cl	0.139	0.139	0.139 ± 0.004
Mg/Cl	0.067	0.069	0.068 ± 0.004
Ca/Cl	0.0216	0.0255	0.0355 ± 0.0396

### 5.3.2 Nutrient salts, silicate and organic carbon

The data on “biochemistry related” components (nutrient salts, silicate and organic carbon) obtained during the time period March 2002 to March 2003 are compiled in Appendix 4.

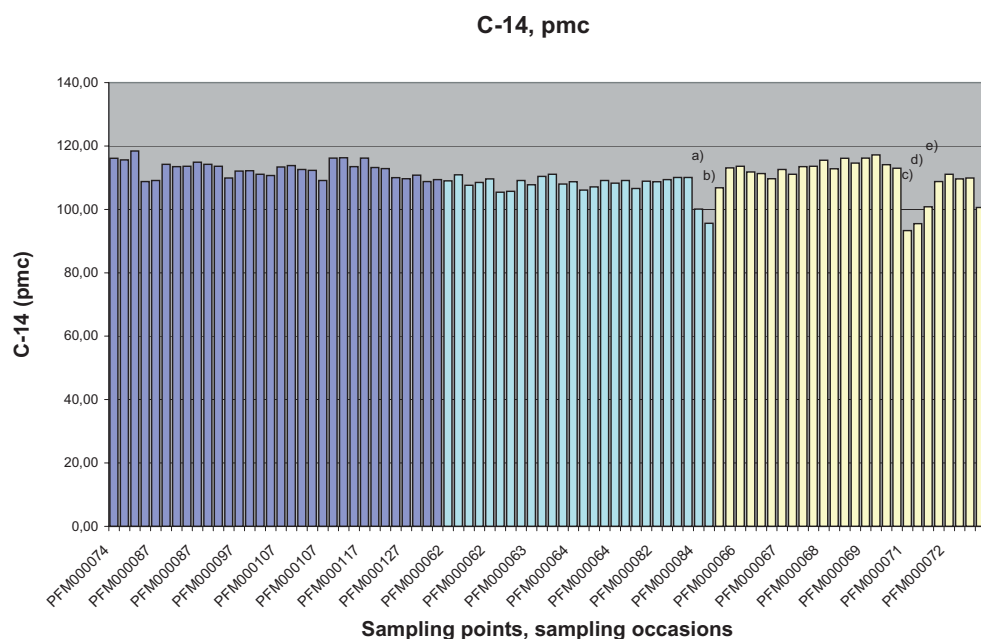
### 5.3.3 Trace metals

The results of the trace metal analyses from the time period March 2002 to March 2003 are compiled in Appendix 6.

### 5.3.4 Isotope determinations

The results of the isotope determination from the time period March 2002 to March 2003 are compiled in Appendix 5 (Deuterium, Tritium, <sup>18</sup>O, <sup>10</sup>B/<sup>11</sup>B, <sup>34</sup>S, <sup>37</sup>Cl, <sup>87</sup>Sr/<sup>86</sup>Sr, <sup>13</sup>C and <sup>14</sup>C pmc) and Appendix 7 (U-, Th-, Ra- and Rn isotopes).

The results of the Carbon-14 determinations (pmc = percent modern carbon) is given in the diagram in Figure 5-6. As can be seen, most of the samples show values well above 100%. Such high values indicate that the water has been in contact with the atmosphere after the atmospheric tests of nuclear bombs performed from about 1950 and onwards. Surface waters with a large proportion of precipitation will thus contain more than 100% pmc. Values below 100% may indicate discharge of groundwater.



**Figure 5-6.** Results of C-14 determinations. Blue colour = lake sample, turquoise colour = sea sample, yellow colour = streaming water sample

- a) PFM000084, 2002-04-17, surface sample
- b) PFM000084, 2002-04-17, bottom sample
- c) PFM000071, 2002-04-16, surface sample
- d) PFM000071, 2002-07-16, surface sample
- e) PFM000071, 2002-08-13, surface sample

## 5.4 Quality of the analyses

### 5.4.1 Control analyses

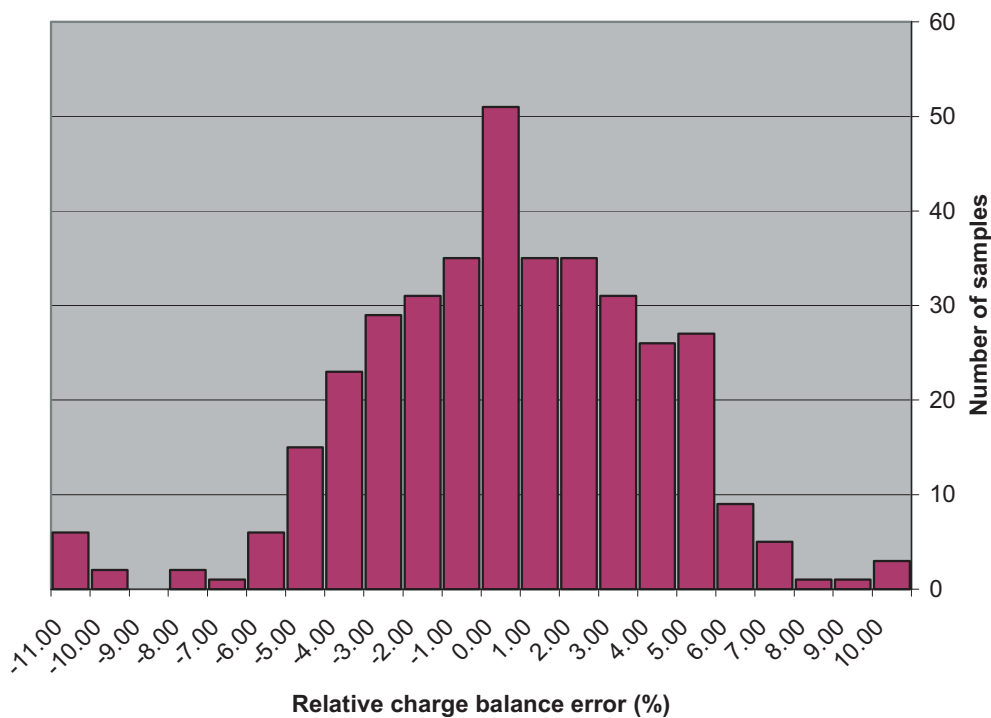
Comparison of results from different laboratories and methods demonstrate that in most cases the agreement is acceptable. Generally, the concentrations of each controlled component agree to within 10%, although this is to a large extent depending on the component in question and its concentration.

Two of the more important ordinary laboratories, i.e. Analytica (ICP) and Dept. of System Ecology, Stockholm University (nutrient salts etc) have better detection limits and show better accuracies compared to the controlling laboratories. The results from the controlling laboratories are in those cases regarded as less reliable than the corresponding results from the ordinary laboratory.

### 5.4.2 Charge balance errors

The charge balance errors give an indication of the quality and uncertainty of the analyses of the major components. The relative charge balance errors are calculated for the selected sets of data, see Appendix 3. The errors exceed  $\pm 10\%$  in 9 cases out of 374, if the incomplete data sets are excluded.

As can be seen from the diagram in Figure 5-7 the number of samples with excess of positive ions is slightly higher than those with a negative imbalance. Part of the explanation could be that the negatively charged organic acids are not included in the calculations of charge balance and may occasionally contribute with about 5% to the negative equivalents.



**Figure 5-7.** Distribution of ion charge balance errors. The number of samples is plotted versus the error range in percent. The total number of samples is 374.

## 6 Future work

The surface water sampling program in its present form is planned to proceed during two years. Later on the sampling is assumed to continue as a monitoring program. The experiences from this first year have resulted in some modifications for the coming year. The new program will be optimized for the two sciences, surface ecosystems and hydrogeochemistry, separately. The main outlines are listed below:

Surface ecosystems program:

- Includes mainly “biochemical” components, iodide and trace metals.
- Proceeds the sampling program with the same frequency as before.
- Reduces the sampling to include only the surface sample (0.5 m) except if the water is covered with ice. In those cases samples will also be collected from the bottom.

Hydrogeochemistry program:

- Includes major components, rare trace metals (as the lanthanoids) and isotopes.
- Reduces the frequency to four times a year (The extent of the analyses varies and the special and most expensive analyses are performed only once a year).
- Excludes C-13 and C-14 (pmc) isotope determinations the second year (except for a few sampling points where the obtained pmc values were found to be less than 100%, see Figure 5-5).
- Reduces the sampling to include only the surface sample (0.5 m) except if the water is covered with ice. In those cases samples will also be collected from the bottom.
- Reduces the sampling by omitting some points.

One year is a too short time to draw extensive conclusions but the data gained show some trends. As mentioned in Section 5.2 there is seldom any stratification of the water column. This fact is the main reason for bottom water samples to be excluded when ice is not present.

The measurement sonds have been used for some months, and at the time of writing an evaluation of the performance is proceeding. The evaluation includes investigations of some instrument defects appearing during the measurement period as well as analysis of the instrument quality. After completion of this work, it be decided if the same instruments should be used further on, or if other solutions should be considered.

## 7 References

- 1 **SKB, 2001.** Platsundersökningar Undersökningsmetoder och generellt genomförandeprogram. SKB R-01-10, Svensk Kärnbränslehantering AB
- 2 **Brunberg A-K, Blomqvist P, 1999.** Characteristics and ontogeny of oligotrophic hardwater lakes in the Forsmark area, central Sweden. SKB R-99-68, Svensk Kärnbränslehantering AB.
- 3 **Naturvårdsverket, 1999.** Bedömningsgrunder för miljö kvalitet. Sjöar och vattendrag. Rapport 4913, Naturvårdsverket, Stockholm.
- 4 **Bydén S, Larsson A-M, Olsson M, 1996.** Mäta vatten. Undersökningar av sött och salt vatten. Göteborgs Universitet, Institutionen för tillämpad miljövetenskap ISBN 91 88376 07 9
- 5 **Bearman G, ed. 1989.** Seawater – Its composition, properties and behaviour. Pergamon Press 1989. ISBN 0 08036367 9

**Sampling and analysis methods**



**Table A1-1. Overview of general sample handling routines and analysis methods**

Component group	Component/element	Sample container (material)	Volume (mL)	Filtering	Preparation/Conservation*	Analysis method	Laboratory****	Analysis within - or delivery time to lab
Anions 1	HCO <sub>3</sub> , pH(lab) cond (lab)	Plastic	250	Yes (not in the field)	No	Titration, Pot. meas, Cond. meas	Mobile field lab. Äspö's chemistry lab. AnalyCen	The same day - maximum 24 hours
Anions 2	Cl, SO <sub>4</sub> , Br <sup>-</sup> , F <sup>-</sup> , I <sup>-</sup>	Plastic	100	Yes (not in the field)	No	Titration (Cl <sup>-</sup> )IC (Cl <sup>-</sup> , SO <sub>4</sub> , Br <sup>-</sup> , F <sup>-</sup> )ISE (F <sup>-</sup> )	Äspö's chemistry lab. AnalyCen	Not critical (month)
Anions 3	Br, I	Plastic	100	Yes (not in the field)	No	ICP MS	SGAB Analytica, AnalyCen	Not critical (month)
Cations, Si and S according to SKB class 3	Na, K, Ca, Mg, S(tot), Si(tot), Li, Sr	Plastic (at low conc. acid washed bottles)	100	Yes (not in the field)	Yes (not in the field, 1 mL HNO <sub>3</sub> )	ICP-AESICP-MS	SGAB Analytica, AnalyCen	Not critical (month)
Cations, Si and S according to SKB class 4 and 5	Na, K, Ca, Mg, S(tot), Si(tot), Fe, Mn, Li, Sr	Plastic (Acid washed)	100	Yes (immediately in the field)	Yes (1 mL HNO <sub>3</sub> )	ICP-AESICP-MS	SGAB Analytica, AnalyCen	Not critical (month)
Fe(II), Fe(tot)	Fe(II), Fe(tot)	Plastic (Acid washed)	500	Yes	Yes (5 mL HCl)	Spectrophotometry Ferrozine method	Mobile field lab.	As soon as possible the same day
Hydrogen sulphide	HS-	Glass (Winkler)	About 120x2	No	Ev 1 mL 1 M NaOH+ 1 mL 1M ZnAc	Spectrophotometry	Mobile field lab. Äspö's chemistry lab. AnalyCen	Immediately or if conserved, a few days
Nutrient salts	NO <sub>2</sub> , NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , PO <sub>4</sub>	Plastic	250	No	No	Spectrophotometry	Äspö's chemistry lab. AnalyCen	Maximum 24 hours
Environmental metals	Al, As, Ba, B, Cd, Co, Cr, Cu, Hg, Mo, Ni, P, Pb, V, Zn	Plastic	100	Yes	Yes (1 mL HNO <sub>3</sub> )	ICP-AESICP-MS	SGAB Analytica, AnalyCen	Not critical (month)
Lantanoids, U, Th and so on.	Sc, Rb, Y, Zr, I, Sb, Cs, La, Hf, Ti, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, U, Th	Plastic	100	Yes	Yes (1 mL HNO <sub>3</sub> )	ICP-AESICP-MS	SGAB Analytica, AnalyCen	Not critical (month)
Dissolved organic Carbon, dissolved inorganic Carbon	DOC, DIC	Plastic	25025	Yes	Frozen, transported in isolated bag	UV oxidation, IR Carbon analysator Shimadzu TOC5000	Paavo Ristola OY Dept. of System ecology, SU	Short transportation time
Total organic Carbon	TOC	Plastic	25025	No	Frozen, transported in isolated bag	UV oxidation, IR Carbon analysator Shimadzu TOC5000	Paavo Ristola OY Dept. of System ecology, SU	Short transportation time

Component group	Component/element	Sample container (material)	Volume (mL)	Filtering	Preparation/Conservation*	Analysis method	Laboratory****	Analysis within – or delivery time to lab
Environmental isotopes	$^2\text{H}$ , $^{18}\text{O}$	Plastic	100	No	–	MS	IFE	Not critical (month)
Tritium,	$^3\text{H}$ (enhanced.)	Plastic (dry bottle)	500	No	–	LSC	Univ. Of Waterloo	Not critical (month)
Chlorine-37	Chlorine-37	Plastic	100	No	–	ICP MS		
Carbon isotopes	$^{13}\text{C}$ , $^{14}\text{C}$	Glass (brown)	100x2	No	–	(AMS)	Univ. Of Waterloo	A few days
Sulphur isotopes	$^{34}\text{S}$	Plastic	500–1000	Yes	–	Combustion, ICP MS	IFE	No limit
Strontium-isotopes	$^{87}\text{Sr}/^{86}\text{Sr}$	Plastic	100	Yes	–	TIMS	IFE	Days or Week
Uranium and Thorium isotopes	$^{234}\text{U}$ , $^{235}\text{U}$ , $^{238}\text{U}$ , $^{232}\text{Th}$ , $^{230}\text{Th}$	Plastic	50	Nej	–	Chemical separat. Alfa/gamma spectrometry	IFE	No limit
Boron isotopes	$^{10}\text{B}$	Plastic	100	Yes	Yes (1 mL $\text{HNO}_3$ )	ICP – MS	SGAB Analytica	No limit
Radon and Radium isotopes	$^{222}\text{Rn}$ , $^{226}\text{Ra}$	Plastic	500	No	No	EDA, RD-200	IFE	Immediate transport
Dissolved gas (content and composition)	Ar, $\text{N}_2$ , $\text{CO}_2$ , $\text{O}_2$ , $\text{CH}_4$ , $\text{H}_2$ , $\text{CO}$ , $\text{C}_2\text{H}_2$ , $\text{C}_2\text{H}_4$ , $\text{C}_2\text{H}_6$ , $\text{C}_3\text{H}_8$	Cylinder of stainless steel	200	No	No	GC	Paavo Ristola OY	Immediate transport
Colloids	Filter series and fractionation (see below)	Polycarbonate filter	0.45, 0.2 and 0.05 mm	–	$\text{N}_2$ atmosphere	ICP-AES/ICP-MS	SGAB Analytica	Immediate transport
Humic and fulvic acids	Fractionation	Fractions are collected in plastic bottles	250	–	$\text{N}_2$ atmosphere	UV oxidation, IR (DOC)	Paavo Ristola OY	Immediate transport
Archive samples with acid	–	Plast (washed in acid)	100x2**	Yes	Yes (1 mL $\text{HNO}_3$ )	–	–	Storage in freeze container
Archive samples without acid	–	Plastic	250x2**	Yes	No	–	–	Storage in freeze container
Carbon isotopes in humic and fulvic acids	$^{13}\text{C}$ , $^{14}\text{C}$ (pmc)	DEAE cellulose (anion exchanger)	–	–	–	(AMS)	The Ångström laboratory, Uppsala	A few days

\* Suprapur acid is used for conservation of samples.

\*\* Minimum number, the number of archive samples can vary depending on how many similar samples that are collected at the same occasion.

\*\*\*\* Full name and address is given in Table A1-5.

**Table A1-2. Sample handling routines and analysis methods for supplementary analyses in surface water samples (Streaming water, lakes and brackish water).**

Component group	Component/element	Sample container (material)	Volume (mL)	Filtering	Preparation/Conservation*	Analysis method	Laboratory****	Analysis within - or delivery time to lab.
Nutrient salt + silicate	NO <sub>2</sub> , NO <sub>3</sub> , NO <sub>2</sub> +NO <sub>3</sub> , NH <sub>4</sub> , PO <sub>4</sub> , SiO <sub>2</sub>	Sample tubes, plastic	25x2	Yes (in the field)	No, frozen immediately***	Spectrophotometry	Dept. of System ecology, SU	Short transportation time
		Plastic	100	No	No, frozen immediately***	Spectrophotometry	Dept. of System ecology, SU	Short transportation time
Total concentrations of Nitrogen and Phosphorous	N-tot, P-tot	Plastic	1000	Yes (within 4 h) prepared filters. Blank filters	Filtering, the filters are frozen immediately 2 filters/sample	Elementar-analysator (N, C)own method 990121 (P)	Dept. of System ecology, SU	Short transportation time
Particulate Carbon, Nitrogen and Phosphorous	POC, PON, POP	Plastic	1000	Yes (within 4 h) prepared filters. Blank filters	Filtering, the filters are frozen immediately	Spectrophotometry Fluorometry	Dept. of System ecology, SU	Short transportation time
Chlorophyll	Chlorophyll a, c and pheopigment	Plastic	1000–2000	Yes (within 4 h)	Filtering, the filters are frozen immediately	Spectrophotometry	Dept. of System ecology, SU	Short transportation time
Oxygen	Dissolved O <sub>2</sub>	Winkler, glass	2x ca 120	No	Mn (II) reagent Iodide reagent	Spectrophotometry SIS SS-EN 25813	Dept. of System ecology, SU AnalyCen	Within 3 days
Archive samples for supplementary radio nuclides		Plastic	5000	No	50 mL HNO <sub>3</sub>	-	-	Storage in freeze container

\* Suprapur acid is used for conservation of samples.

\*\* Minimum number, The number of archive samples can vary depending on how many similar samples that are collected at the same occasion.

\*\*\* The sample is transported in frozen condition to the laboratory. It is possible that the silicate concentration can change due to polymerisation for this reason.

\*\*\*\* Full name and address is given in Table A1-5.

**Abbreviations and definitions:**

- IC Ion chromatograph
- ISE Ion selective electrode
- ICP-AES Inductively Coupled Plasma Atomic Emission Spectrometry
- ICP-MS Inductively Coupled Plasma Mass Spectrometry
- INAA Instrumental Neutron Activation Analysis
- MS Mass Spectrometry
- LSC Liquid Scintillation Counting
- (A)MS (Accelerator) Mass Spectrometry
- GC Gas Chromatography

**Table A1-3. Changed laboratories during the time period March 2002 to March 2003**

Component	Initial laboratory*	Present laboratory*
Alkalinity, pH, electric conductivity	Alcontrol, Linköping	Analyses on site
Oxygen	Alcontrol, Linköping	Dept. of System ecology, SU
ICP–analyses of major cations, environmental and trace metals	SLU, Luleå (control analyses)	AnalyGen (control analyses)
Anions and nutrient salts	Alcontrol, Linköping (control analyses)	AnalyGen
Carbon isotopes ( <sup>13</sup> C and <sup>14</sup> C (pmc))	The Ångström laboratory, Uppsala	University of Waterloo The Ångström laboratory is used for control analyses

**Table A1-4. Reporting limits and measurement uncertainties**

Component	Method	Reporting limits or range	Unit	Measurement uncertainty <sup>3</sup>	“Total” uncertainty <sup>4</sup>
HCO <sub>3</sub> affects	Alkalinity titration	1	mg/L	4%	Time delay the results
Cl <sup>-</sup>	Mohr- titration	> 70	mg/L	5%	<10%
Cl <sup>-</sup>	IC	1–100		6%	20%
SO <sub>4</sub>	IC	1	mg/L	10%	20%
Br <sup>-</sup>	IC	0.2	mg/L	9%	30%
Br <sup>-</sup>	ICP	0.001		15%	
F <sup>-</sup>	IC	0.1	mg/L	10%	
F <sup>-</sup>	Potentiometric	–		–	20%
I <sup>-</sup>	ICP	0.001	mg/L	15%	20%
Na	ICP	0.1	mg/L	4%	10%
K	ICP	0.4	mg/L	6%	20%
Ca	ICP	0.1	mg/L	4%	10%
Mg	ICP	0.09	mg/L	4%	10%
S(tot)	ICP	0.160	mg/L	21%	20%
Si(tot)	ICP	0.03	mg/L	4%	15%
Sr	ICP	0.002	mg/L	4%	10%
Li	ICP	0.2 <sup>1</sup> 2 <sup>2</sup>	mg/L	10%	20%
Fe	ICP	0.4 <sup>1</sup> 4 <sup>2</sup>	mg/L	6%	10%
Mn	ICP	0.03 <sup>1</sup> 0.1 <sup>2</sup>	µg/L	8%	10%
Fe(II), Fe(tot)	Spectrophotometry	0.02 (DL=0.005 mg/L)	mg/L	22%	30%
HS <sup>-</sup>	Spectrophotometry	SKB 0.03 (DL=0.002) AnalyGen (DL= 0.003)	mg/L	20%	30%
NO <sub>2</sub> as N	Spectrophotometry	0.1	µg/L	2%	20%
NO <sub>3</sub> as N	Spectrophotometry	0.2	µg/L	5%	20%
NO <sub>2</sub> +NO <sub>3</sub> as N	Spectrophotometry	0.2	µg/L	0.2 (0.2–20 mg/L) 2% (> 20 mg/L)	20%
NH <sub>4</sub> as N	Spectrophotometry	0.8  50 (SKB)	µg/L	0.8 (0.8–20 mg/L) 5% (> 20 mg/L) 20%	20%
PO <sub>4</sub> as P	Spectrophotometry	0.7	µg/L	0.7 (0.7–20 mg/L) 3% (> 20 mg/L)	20%
SiO <sub>2</sub>	Spectrophotometry	1	µg/L	3% (>200 mg/L)	–
O <sub>2</sub>	Jodometrisc titration	0.2–20	mg/L	5%	–

Component	Method	Reporting limits or range		Unit	Measurement uncertainty <sup>3</sup>	"Total" uncertainty <sup>4</sup>
Chlorophyll a, c pheopigment <sup>6</sup>	See table A1-2	0.5		µg/L	5%	–
PON <sup>6</sup>	See table A1-2	0.5		µg/L	5%	–
POP <sup>6</sup>	See table A1-2	0.1		µg/L	5%	–
POC <sup>6</sup>	See table A1-2	1		µg/L	4%	–
Tot-N <sup>6</sup>	See table A1-2	10		µg/L	4%	–
Tot-P <sup>6</sup>	See table A1-2	0.5		µg/L	6%	–
Al, Zn	ICP	0.2		µg/L	12%	20% <sup>5</sup>
Ba, Cr, Mo, Pb	ICP	0.01		µg/L	7–10%	20% <sup>5</sup>
Cd, Hg	ICP	0.002		µg/L	9 resp 5%	20% <sup>5</sup>
Co, V	ICP	0.005		µg/L	8 resp 5%	20% <sup>5</sup>
Cu	ICP	0.1		µg/L	8%	20% <sup>5</sup>
Ni	ICP	0.05		µg/L	8%	20% <sup>5</sup>
P	ICP	1		µg/L	6%	10%
As	1ICP	0.01		µg/L	20%	Correct order of size
La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb	ICP	0.0051	0.05 <sup>2</sup>	µg/L	10%	Correct order of size
Sc, In, Th	ICP	0.05 <sup>1</sup>	0.5 <sup>2</sup>	µg/L	10%	Correct order of size
Rb, Zr, Sb, Cs, Tl	ICP	0.025 <sup>1</sup>	0.25 <sup>2</sup>	µg/L	10%	Correct order of size
Y, Hf	ICP	0.005 <sup>1</sup>	0.05 <sup>2</sup>	µg/L	10%	Correct order of size
U	ICP	0.001 <sup>1</sup>	–	µg/L	12%	Correct order of size
DOC, DIC	See table A1-1	0.1		Mg/L	20%	50%
TOC	See table A1-1	0.1		Mg/L	20%	50%
<sup>2</sup> H	MS	2		‰ dev SMOU	1‰	–
<sup>18</sup> O	MS	0.1		‰ dev SMOU	0.2‰	–
<sup>3</sup> H	LSC	0.8 eller 0.1		TU	0.8 eller 0.1	Correct order of size
<sup>37</sup> Cl	ICP MS	0.2‰ (20 mg/L)		SMOC	–	–
<sup>13</sup> C	A (MS)	0.3‰		PDB	–	–
<sup>14</sup> C pmc	A (MS)	0.3‰		PMC	–	Correct order of size
<sup>34</sup> S	ICP MS	0.2‰			0.3‰	
<sup>87</sup> Sr/ <sup>86</sup> Sr	TIMS	–		–	–	–
<sup>10</sup> B/ <sup>11</sup> B	ICP MS	–		–	–	–
<sup>234</sup> U, <sup>235</sup> U, <sup>238</sup> U, <sup>232</sup> Th, <sup>230</sup> Th, <sup>222</sup> Rn, <sup>226</sup> Ra	Alfa spectr. LSC	0.5, <sup>222</sup> Rn & <sup>226</sup> Ra	0.1	Bq/L	0.05 Bq/L	Correct order of size

<sup>1</sup> Salt ≤ 0.4‰ (520 mS/m)

<sup>2</sup> Salt ≤ 3.5‰ (3810 mS/m)

<sup>3</sup> Measurement uncertainty reported by consulted laboratory

<sup>4</sup> "Total" uncertainty estimated by experience (includes sampling and sample handling)

<sup>5</sup> Valid for surface water samples collected by metal free "Ruttner sampler", filtered and acidified in the field. The risk of contamination varies depending on sampling method.

<sup>6</sup> Determined only in surface waters and near surface groundwater

**Table A1-5. Consulted laboratories, full name and address**

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**Äspö waterchemical laboratory (SKB)  
Mobile field laboratory, Forsmark (SKB)**

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Inainööritoimisto  
Paavo Ristola Oy  
Teollisuus-ja  
Voimalaitoskemia  
Rajantorantie 8, C-talo  
01600 Vantaa  
FINLAND

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Dept. of System ecology  
Stockholm University  
10691 Stockholm

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Analytica AB  
Aurorum 10  
977 75 Luleå  
(Nytorsvägen 16  
Box 511  
183 25 Täby)

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Environmental Isotope Laboratory  
Dep. Of earth sciences  
University of Waterloo  
Waterloo, Ontario  
N2L 3G1 CANADA

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Institutt for energiteknik (IFE)  
Instituttveien 18  
P.O Box 40  
2027 Kjeller  
NORGE

---

AnalyCen Nordic AB  
Box 905  
531 19 Lidköping

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The Ångström laboratory  
Box 534  
Se-751 21 Uppsala

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Environmental research laboratory (SLU), Luleå

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Alcontrol  
Box 1083  
581 10 Linköping

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**Field measurements**

Idcode	Date and time	Depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyll ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Comment
AFM000048	2002-03-20 10:06	-1.00	1.5	7.39	30.9				9.99					samlingsprov
AFM000050	2002-03-19 09:40	-1.00	3.2	7.43	102.3	0.30			10.00					samlingsprov
AFM000073	2002-03-19 19:30	-1.00	3.7	7.31	39.4									samlingsprov
AFM000074	2002-03-19 12:18	-1.00	3.4	7.22	103.4	0.30			8.30					samlingsprov
PFM000062	2002-05-07 08:51	0.50	7.4	8.27	880.0	4.70			13.85					samlingsprov
PFM000062	2002-05-07 08:51	1.00	7.4	8.26	880.0	4.70			13.80					samlingsprov
PFM000062	2002-05-07 08:51	2.00	7.3	8.25	880.0	4.80			13.82					
PFM000062	2002-05-07 08:51	3.00	7.4	8.24	880.0	4.80			13.70				3.50	
PFM000062	2002-05-14 07:30	0.50	6.6	8.15	880.0	4.80			14.13				4.00	Dense fog!
PFM000062	2002-05-14 07:30	1.00	6.6	8.20	880.0	4.80			13.99				4.00	Dense fog!
PFM000062	2002-05-14 07:30	2.00	6.5	8.19	880.0	4.80			14.05				4.00	Dense fog!
PFM000062	2002-05-14 07:30	3.00	6.5	8.20	880.0	4.80			14.00				4.00	Dense fog!
PFM000062	2002-05-14 07:30	3.50	6.4	8.25	880.0	4.80			13.93				4.00	Dense fog!
PFM000062	2002-05-27 13:49	0.50	10.5	8.27	879.0	4.80			12.05				3.50	
PFM000062	2002-05-27 13:49	1.00	10.5	8.27	877.0	4.80			12.00				3.50	
PFM000062	2002-05-27 13:49	2.00	10.5	8.25	879.0	4.80			11.94				3.50	
PFM000062	2002-05-27 13:49	3.00	10.5	8.24	878.0	4.80			11.72				3.50	
PFM000062	2002-06-10 13:00	0.50	17.5	8.18	865.0	4.80			10.88				3.50	
PFM000062	2002-06-10 13:00	1.00	17.5	8.19	864.0	4.80			10.95					
PFM000062	2002-06-10 13:00	2.00	17.3	8.19	864.0	4.80			10.99					
PFM000062	2002-06-10 13:00	3.00	17.3	8.18	864.0	4.80			10.99					
PFM000062	2002-06-24 07:30	0.50	16.1	8.07	843.0	4.60			10.26				3.70	
PFM000062	2002-06-24 07:30	1.00	16.0	8.05	840.0	4.60			10.20				3.70	
PFM000062	2002-06-24 07:30	2.00	15.9	8.05	843.0	4.60			10.14				3.70	
PFM000062	2002-06-24 07:30	3.00	15.9	8.08	840.0	4.60			10.14				3.70	
PFM000062	2002-07-15 07:30	0.50	19.6	7.62	859.0	4.80	0.0		9.63				3.70	
PFM000062	2002-07-15 07:30	1.00	19.4	7.94	857.0	4.80			9.60				3.70	
PFM000062	2002-07-15 07:30	2.00	18.8	7.95	859.0	4.80			9.70				3.70	
PFM000062	2002-07-15 07:30	3.00	18.8	7.98	858.0				9.74				3.70	
PFM000062	2002-08-12 09:04	0.50	20.2	7.81	807.0	4.50			8.65				3.60	
PFM000062	2002-08-12 09:04	1.50	20.0	7.87	814.0	4.50			8.79				3.60	

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Idcode	Date and time	Depth m	Water temp- erature °C	pH	Conduc- tivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000062	2002-08-12 09:04	2.00	19.9	7.92	814.0	4.50			8.75				3.60	
PFM000062	2002-08-12 09:04	3.00	19.9	7.94	812.0	4.50			8.75				3.60	
PFM000062	2002-09-02 07:30	0.50	15.6	7.82	770.0	4.30			9.78					Pegel 93,5 YSI 600 QR
PFM000062	2002-09-02 07:30	1.00	15.6	7.82	770.0	4.30			9.77					
PFM000062	2002-09-02 07:30	2.00	15.5	7.82	770.0	4.30			9.80					
PFM000062	2002-09-02 07:30	3.00	15.4	7.81	780.0	4.30			9.82					
PFM000062	2002-09-16 18:00	0.50	15.1	7.91	808.0	4.50			9.99					
PFM000062	2002-09-16 18:00	1.00	15.1	7.91	809.0	4.50			9.94					
PFM000062	2002-09-16 18:00	2.00	15.9	7.92	809.0	4.50			9.90					
PFM000062	2002-09-16 18:00	3.00	15.0	7.92	809.0	4.51			9.87					3.60 Pegel avläst 88,5 kl 12:09
PFM000062	2002-10-21 13:00	0.50	6.1	7.64	628.7	3.40			13.84					
PFM000062	2002-10-21 13:00	1.00	6.1	7.85	628.6	3.40			13.81					
PFM000062	2002-10-21 13:00	2.00	6.1	7.98	628.8	3.40			13.81					
PFM000062	2002-10-21 13:00	3.00	6.1	8.03	628.7	3.42			13.82					
PFM000062	2002-11-11 08:00	0.50	4.8	7.80	731.6	4.00	-1.4	106.60	12.43					
PFM000062	2002-11-11 08:00	1.00	4.9	7.88	732.2	4.00	-1.5	76.50	12.32					
PFM000062	2002-11-11 08:00	2.00	4.9	7.89	732.5	4.00	-1.6	60.20	12.29					
PFM000062	2002-11-11 08:00	3.00	4.8	7.90	732.2	4.01	-1.5	21.80	12.29					
PFM000062	2002-11-25 08:00	0.50	2.3	7.86	80.2	3.36	6.4	20.30	12.98	2.4				
PFM000062	2002-11-25 08:00	1.00	2.3	7.89	625.2	3.36	5.8	15.50	12.91	2.4				
PFM000062	2002-11-25 08:00	2.00	2.3	7.90	625.5	3.36	5.8	9.20	12.86	2.6				
PFM000062	2002-11-25 08:00	3.00	2.3	7.89	625.4	3.36	5.7	6.00	12.82	1.7				
PFM000062	2002-12-16 08:00	0.50	1.6	7.74	568.8	3.03	4.8	55.00	14.02	1.8	188	1012.5	3.60	3.30 0-värde ljusmätning = 63,4 umol/m2sek
PFM000062	2002-12-16 08:00	1.00	1.6	7.83	569.4	3.03	4.9	43.10	14.00	2.2	182	1012.1	3.30	3.30 0-värde ljusmätning = 63,4 umol/m2sek
PFM000062	2002-12-16 08:00	2.00	1.6	7.85	569.4	3.03	4.9	23.50	13.95	2.4	179	1012.3	3.30	3.30 0-värde ljusmätning = 63,4 umol/m2sek
PFM000062	2002-12-16 08:00	3.00	1.6	7.84	569.4	3.03	4.7	14.80	13.91	2.4	177	1012.2	3.30	3.30 0-värde ljusmätning = 63,4 umol/m2sek
PFM000063	2002-05-07 12:00	0.50	10.1	8.19	840	4.60			12.10				5.00	
PFM000063	2002-05-07 12:00	1.00	9.9	8.17	840	4.60			12.10				5.00	
PFM000063	2002-05-07 12:00	2.00	9.4	8.18	850	4.60			12.41				5.00	
PFM000063	2002-05-07 12:00	3.00	8.8	8.19	860	4.70			12.48				5.00	
PFM000063	2002-05-07 12:00	4.50	8.5	8.18	860	4.70			12.45				5.00	
PFM000063	2002-05-14 12:00	0.50	13.8	8.10	8.6	4.70			11.28				4.90	

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Idcode	Date and time	Depth Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyll ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000063	2002-05-14 12:00	13.3	8.17	8.6	4.70			11.35				4.90	
PFM000063	2002-05-14 12:00	10.8	8.16	8.7	4.80			12.63				4.90	
PFM000063	2002-05-14 12:00	9.4	8.19	8.8	4.80			12.99				4.90	
PFM000063	2002-05-14 12:00	8.9	8.20	8.8	4.80			12.67				4.90	
PFM000063	2002-05-14 12:00	8.5	8.20	8.8	4.80			12.20				4.90	
PFM000063	2002-05-27 14:30	13.5	8.13	878.0	4.80			10.69				5.00	
PFM000063	2002-05-27 14:30	13.4	8.14	878.0	4.80			10.65				5.00	
PFM000063	2002-05-27 14:30	13.1	8.15	879.0	4.80			10.60				5.00	
PFM000063	2002-05-27 14:30	13.0	8.15	879.0	4.80			10.61				5.00	
PFM000063	2002-05-27 14:30	11.5	8.20	879.0	4.80			10.80				5.00	
PFM000063	2002-05-27 14:30	11.4	8.13	880.0	4.80			10.30				5.00	
PFM000063	2002-06-10 14:15	21.1	8.24	884.0	4.90			10.00				5.00	
PFM000063	2002-06-10 14:15	21.0	8.25	884.0	4.90			9.83					
PFM000063	2002-06-10 14:15	19.5	8.26	884.0	4.90			10.04					
PFM000063	2002-06-10 14:15	17.0	8.19	882.0	4.90			11.08					
PFM000063	2002-06-10 14:15	15.4	8.14	882.0	4.90			10.01					
PFM000063	2002-06-10 14:15	14.5	8.07	884.0	4.90			8.89					
PFM000063	2002-06-24 07:30	18.2	8.11	854.0	4.70			9.12				5.20	
PFM000063	2002-06-24 07:30	18.2	8.09	854.0	4.70			9.64				5.20	
PFM000063	2002-06-24 07:30	18.0	8.15	854.0	4.70			10.05				5.20	
PFM000063	2002-06-24 07:30	17.7	8.14	857.0	4.70			9.47				5.20	
PFM000063	2002-06-24 07:30	17.3	8.05	855.0	4.70			9.24				5.20	
PFM000063	2002-06-24 07:30	16.3	8.06	852.0	4.70			8.82				5.20	
PFM000063	2002-07-15 07:30	21.5	7.94	853.0	4.80			8.74				5.20	
PFM000063	2002-07-15 07:30	21.3	7.90	850.0	4.80			8.70				5.20	
PFM000063	2002-07-15 07:30	18.9	8.06	854.0	4.80			9.05				5.20	
PFM000063	2002-07-15 07:30	17.3	8.01	860.0	4.80			9.24				5.20	
PFM000063	2002-07-15 07:30	16.0	8.05	865.0	4.80			8.83				5.20	
PFM000063	2002-07-15 07:30	15.6	7.84	866.0	4.80			8.10				5.20	
PFM000063	2002-08-12 10:30	21.9	8.07	838.0	4.70			8.99				5.10	
PFM000063	2002-08-12 10:30	21.8	8.11	838.0	4.70			8.99				5.10	
PFM000063	2002-08-12 10:30	21.8	8.12	838.0	4.70			8.72				5.10	

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Idcode	Date and time	Depth Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m²	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000063	2002-08-12 10:30	3.00	7.95	832.0	4.60			8.11				5.10	
PFM000063	2002-08-12 10:30	4.00	7.64	850.0	4.70			2.96				5.10	
PFM000063	2002-08-12 10:30	4.50	7.50	869.0	4.80			0.72				5.10	
PFM000063	2002-09-02 07:30	0.50	7.85	772.0	4.30			9.10				5.10	
PFM000063	2002-09-02 07:30	1.00	7.84	773.0	4.30			9.60				5.10	
PFM000063	2002-09-02 07:30	2.00	7.84	773.0	4.30			9.05				5.10	
PFM000063	2002-09-02 07:30	3.00	7.83	773.0	4.30			9.00				5.10	
PFM000063	2002-09-02 07:30	4.00	7.76	775.0	4.30			8.87				5.10	
PFM000063	2002-09-02 07:30	4.50	7.61	779.0	4.34			8.38				5.10	
PFM000063	2002-09-16 18:00	0.50	8.00	819.0	4.60			10.53				5.10	
PFM000063	2002-09-16 18:00	10.00	8.00	819.0	4.60			10.47				5.10	
PFM000063	2002-09-16 18:00	2.00	8.00	819.0	4.60			10.43				5.10	
PFM000063	2002-09-16 18:00	3.00	8.00	820.0	4.60			10.39				5.10	
PFM000063	2002-09-16 18:00	4.00	8.00	820.0	4.60			10.35				5.10	
PFM000063	2002-09-16 18:00	4.50	7.98	821.0	4.58			10.28				5.10	
PFM000063	2002-10-21 13:00	0.50	8.06	633.9	3.40			14.89				5.00	
PFM000063	2002-10-21 13:00	1.00	8.07	634.7	3.40			14.79				5.00	
PFM000063	2002-10-21 13:00	2.00	8.07	634.0	3.40			14.73				5.00	
PFM000063	2002-10-21 13:00	3.00	8.07	633.4	3.40			14.69				5.00	
PFM000063	2002-10-21 13:00	4.00	8.06	633.5	3.40			14.68				5.00	
PFM000063	2002-10-21 13:00	4.50	8.08	633.1	3.41			15.63				5.00	
PFM000063	2002-11-11 08:00	0.50	7.88	742.2	4.00	-2.2	91.70	13.57				5.20	
PFM000063	2002-11-11 08:00	1.00	7.89	742.2	4.00	-2.0	39.60	13.52				5.20	
PFM000063	2002-11-11 08:00	2.00	7.88	742.3	4.00	-2.0	90.60	13.50				5.20	
PFM000063	2002-11-11 08:00	3.00	7.89	742.3	4.00	-1.9	66.10	13.50				5.20	
PFM000063	2002-11-11 08:00	4.00	7.89	742.2	4.00	-2.0	46.60	13.50				5.20	
PFM000063	2002-11-11 08:00	4.50	7.42	719.9	3.88	-3.2	28.70	7.93				5.20	
PFM000063	2002-11-25 08:00	0.50	7.88	624.6	3.34	5.1	30.30	13.26	3.0			5.20	
PFM000063	2002-11-25 08:00	1.00	7.88	624.6	3.34	5.1	23.70	13.21	3.2			5.20	
PFM000063	2002-11-25 08:00	2.00	7.89	624.9	3.34	5.2	12.20	13.11	2.9			5.20	
PFM000063	2002-11-25 08:00	3.00	7.89	624.8	3.34	5.7	7.10	13.06	3.1			5.20	
PFM000063	2002-11-25 08:00	4.00	7.89	624.8	3.34	5.2	5.80	12.96	2.1			5.20	

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Idcode	Date and time	Depth Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyll ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000063	2002-11-25 08:00	4.50	7.87	624.5	3.34	5.8	4.90	12.89	2.4		1010.6	5.20	
PFM000063	2002-12-16 08:00	0.50	7.56	574.7	3.04	4.4	47.90	14.20	2.2	192	1010.6	4.80	0-värde ljusmätning = 44,4 umol/m2sek
PFM000063	2002-12-16 08:00	1.00	7.70	574.7	3.04	4.4	32.60	14.05	3.3	186	1010.4	4.80	0-värde ljusmätning = 44,4 umol/m2sek
PFM000063	2002-12-16 08:00	2.00	7.71	573.9	3.04	4.7	20.70	13.98	3.6	183	1010.5	4.80	0-värde ljusmätning = 44,4 umol/m2sek
PFM000063	2002-12-16 08:00	3.00	7.72	574.9	3.04	4.6	14.70	13.81	1.6	181	1010.4	4.80	0-värde ljusmätning = 44,4 umol/m2sek
PFM000063	2002-12-16 08:00	4.00	7.65	575.0	3.05	4.7	9.40	13.08	2.3	179	1010.3	4.80	0-värde ljusmätning = 44,4 umol/m2sek
PFM000063	2002-12-16 08:00	4.50	7.60	574.9	3.05	5.2	6.60	12.71	2.5	177	1011.0	4.80	0-värde ljusmätning = 44,4 umol/m2sek
PFM000063	2003-01-14 08:00	0.50	7.48	697.5	3.73			12.03		75	973.2	5.20	
PFM000063	2003-01-14 08:00	1.00	7.49	700.6	3.75			11.75		68	973.5	5.20	
PFM000063	2003-01-14 08:00	2.00	7.44	708.1	3.79			11.23		68	973.3	5.20	
PFM000063	2003-01-14 08:00	3.00	7.41	711.4	3.81			10.94		67	973.0	5.20	
PFM000063	2003-01-14 08:00	4.00	7.32	715.6	3.84			9.55		67	972.5	5.20	
PFM000063	2003-01-14 08:00	4.50	7.28	717.3	3.85			9.13		11	971.2	5.20	
PFM000063	2003-02-17 07:30	0.50	7.21	532.0	2.80	-0.1	29.80	10.96	3.0	169	1020.7	4.50	
PFM000063	2003-02-17 07:30	1.00	7.19	584.0	3.09	-0.4	10.40	10.79	2.8	169	1021.8	4.50	
PFM000063	2003-02-17 07:30	2.00	7.20	640.6	3.41	-0.7	3.30	10.77	2.5	170	1022.0	4.50	
PFM000063	2003-02-17 07:30	3.00	7.21	677.7	3.63	-0.9	1.20	10.26	2.4	170	1020.3	4.50	
PFM000063	2003-02-17 07:30	4.00	7.18	709.7	3.81	-1.0	0.30	9.38	1.6	170	1019.5	4.50	
PFM000063	2003-02-17 07:30	4.50	7.17	706.8	3.79	-1.1	-0.10	9.16	2.3	119	1018.2	4.50	
PFM000064	2002-05-07 12:00	0.50	8.16	450.0	2.50			12.40				1.80	
PFM000064	2002-05-07 12:00	1.00	8.10	750.0	4.00			12.42				1.80	
PFM000064	2002-05-07 12:00	1.50	8.16	780.0	4.20			12.83				1.80	
PFM000064	2002-05-14 11:15	0.50	16.0	8.08	3.80			10.39				1.90	
PFM000064	2002-05-14 11:15	1.00	11.0	8.07	4.40			11.87				1.90	
PFM000064	2002-05-14 11:15	1.50	9.2	8.04	4.50			11.99				1.90	
PFM000064	2002-05-27 16:00	0.50	14.7	7.97	831.0	4.60		10.08				2.00	
PFM000064	2002-05-27 16:00	1.00	14.5	7.95	830.0	4.60		10.33				2.00	
PFM000064	2002-05-27 16:00	1.50	13.3	8.00	850.0	4.60		12.22				2.00	
PFM000064	2002-06-10 15:20	0.50	21.3	8.29	867.0	4.80		10.44				1.50	
PFM000064	2002-06-10 15:20	1.00	21.3	8.31	867.0	4.80		10.24				1.50	
PFM000064	2002-06-24 07:30	0.50	19.2	8.11	834.0	4.60		9.62				1.50	
PFM000064	2002-06-24 07:30	1.00	19.3	8.14	834.0	4.60		9.77				1.50	

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PFM000064	2002-07-15 07:30	0.50	8.18	818.0	4.60			9.10				1.50	
PFM000064	2002-07-15 07:30	1.00	8.13	819.0	4.60			9.37				1.40	
PFM000064	2002-08-12 12:00	0.50	8.36	710.0	3.90			9.08				1.40	
PFM000064	2002-08-12 12:00	1.00	8.38	710.0	3.90			8.97				1.50	
PFM000064	2002-09-02 07:30	0.50	16.1	742.0	4.10			9.85				1.50	
PFM000064	2002-09-02 07:30	1.00	16.1	744.0	4.12			9.83				1.50	
PFM000064	2002-09-16 18:00	0.50	11.4	816.0	4.50			10.58				1.50	
PFM000064	2002-09-16 18:00	1.00	11.4	816.0	4.55			10.52				1.40	
PFM000064	2002-10-21 13:00	0.50	1.2	627.4	3.40			15.37				1.40	
PFM000064	2002-10-21 13:00	1.00	1.3	625.5	3.34			15.33				1.30	
PFM000064	2002-11-11 08:00	0.50	0.0	431.0	2.20	24.4	143.50	14.08				1.30	
PFM000064	2002-11-11 08:00	1.00	0.0	438.6	2.28	32.7	38.40	14.07				1.30	
PFM000064	2002-11-25 08:00	0.50	0.3	599.1	3.18	5.6	8.30	11.81	5.2			1.50	
PFM000064	2002-11-25 08:00	1.00	0.4	601.0	3.19	6.9	3.40	11.35	6.2			1.50	
PFM000064	2002-12-16 08:00	0.50	1.3	435.3	2.28	7.0	14.30	10.13	4.7	175	1007.5	1.30	0-värde ljusmätning = 14,3 umol/m2sek
PFM000064	2002-12-16 08:00	1.00	1.6	488.6	2.58	7.0	7.50	10.06	3.9	172	1008.8	1.30	0-värde ljusmätning = 14,3 umol/m2sek
PFM000065	2002-05-27 16:45	0.50	14.0	821.0	4.50			10.70				1.00	
PFM000065	2002-06-10 16:30	0.50	22.0	844.0	4.70			10.32				1.00	
PFM000065	2002-06-24 07:30	0.50	18.6	832.0	4.60			10.53				1.30	
PFM000065	2002-07-15 07:30	0.50	22.6	820.0	4.60			10.56				1.20	
PFM000065	2002-08-12 12:15	0.50	22.9	651.0	3.50			8.80				1.10	
PFM000065	2002-09-02 07:30	0.50	13.7	785.0	4.37			11.16				1.00	
PFM000065	2002-09-16 18:00	0.50	12.6	802.0	4.47			10.51				1.10	
PFM000065	2002-09-30 07:30	0.50	10.2	782.0	4.34			11.59				1.20	
PFM000065	2002-10-21 13:00	0.50	2.5	608.9	3.27			15.13				1.20	
PFM000065	2002-11-11 08:00	0.50	0.0	253.9	1.28	10.3	91.00	14.07	4.0			1.20	
PFM000065	2002-11-25 08:00	0.50	0.7	560.4	2.97	6.3	3.40	13.59	3.3	158	1008.8	1.10	0-värde ljusmätning = 1,5 umol/m2sek
PFM000065	2002-12-16 08:00	0.50	1.6	432.2	2.26	6.1	1.80	11.33	3.3	95	991.9	1.20	
PFM000065	2003-01-13 08:00	0.50	0.2	456.0	2.38	1.4	3.00	6.84	7.1	182	1016.7	0.90	
PFM000065	2003-02-17 07:30	0.50	0.3	141.6	0.70			2.91				0.50	
PFM000066	2002-03-20 11:05	0.20	0.7	32.0								0.50	
PFM000066	2002-04-02 16:30	0.20	5.1	25.8				5.61				0.30	

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PFM000066	2002-04-15 11:40	0.20	7.42	30.6				7.15				0.40	
PFM000066	2002-05-05 20:00	0.10	7.55	330.0				7.24				0.20	
PFM000066	2002-05-12 12:00	0.50	7.96	337.0				6.11				0.50	
PFM000066	2002-05-26 22:00	0.05	7.42	34.4				5.04				0.10	
PFM000066	2002-06-09 22:15	0.00											No sampling, dry stream
PFM000066	2002-06-23 18:00	0.10	7.24	304.0				4.87				0.20	
PFM000066	2002-07-16 07:30	0.20	7.25	341.0				4.31				0.20	
PFM000066	2002-08-11 22:00	0.05	7.06	35.7	0.00			3.47				0.10	
PFM000066	2002-09-02 07:30	0.00											No sampling, dry stream
PFM000066	2002-09-15 18:00	0.00											No sampling, dry stream
PFM000066	2002-11-12 08:00	0.00											No sampling, dry stream
PFM000066	2002-11-26 07:00	0.10	7.29	27.9	0.13			9.28				0.02	
PFM000066	2002-12-17 07:30	0.10	7.25	32.4	0.15			6.74		128	998.2	0.20	
PFM000066	2003-01-13 08:00	0.10	7.04	24.9	0.12			1.11		25	993.0	0.15	
PFM000066	2003-02-17 07:30	0.10	6.82	33.8	0.16			2.55		14	1021.2	0.20	
PFM000067	2002-03-19 10:16	0.10	6.80	32.4				3.45				0.50	
PFM000067	2002-04-01 15:15	0.20	6.97	30.3				5.68				0.40	
PFM000067	2002-04-17 11:00	0.50	4.789	81.9	0.10			12.17				0.30	Newly dead Pike found, about 2 kg!
PFM000067	2002-05-06 09:30	0.10	7.96	73.0	0.10			10.40				0.20	Air temp. is guessed!
PFM000067	2002-05-13 12:00	0.50	8.28	73.1	0.10			9.50				0.50	
PFM000067	2002-05-27 09:15	0.10	8.31	64.7	0.10			10.24					
PFM000067	2002-06-10 09:40	0.05	7.67	86.7	0.20			6.47				0.10	
PFM000067	2002-06-24 07:30	0.15	7.80	803.0	0.20			8.41				0.10	
PFM000067	2002-07-15 07:30	0.10	7.30	669.0	0.10			7.42				0.30	
PFM000067	2002-08-12 17:30	0.10	8.17	56.7	0.00			8.45				0.20	Difficult to measure flow
PFM000067	2002-09-02 07:30	0.10	8.40	54.0	0.26			10.22					YSI 600 QR. No flow measured
PFM000067	2002-09-16 18:00	0.05	8.00	59.0	0.29			10.65				0.10	Flow not measured due to vegetation
PFM000067	2002-10-22 07:30	0.05	7.80	47.1	0.23			13.70				0.10	
PFM000067	2002-11-13 07:00	0.05	7.69	48.0	0.23			13.51				0.20	
PFM000067	2002-11-26 07:00	0.05	7.88	48.9	0.23			13.10				0.23	
PFM000067	2002-12-17 07:30	0.10	7.38	45.4	0.22			10.24		134	1002.1	0.30	
PFM000067	2003-01-15 08:00	0.10	7.24	49.7	0.24			1.67		-94	977.4	0.30	

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PFM000067	2003-02-18 07:30	0.10	6.95	41.2	0.20		1.17			-65	1020.7	0.25	
PFM000068	2002-03-18 18:20	0.50	7.13	29.5			4.25					0.80	
PFM000068	2002-04-01 16:10	0.30	7.06	22.2			6.11					0.80	
PFM000068	2002-04-15 15:10	0.50	7.21	27.3			7.30					0.47	
PFM000068	2002-05-05 20:00	0.10	7.31	32.3			7.36					0.50	
PFM000068	2002-05-13 18:00	0.10	7.35	36.6			6.15					0.40	
PFM000068	2002-05-28 12:00	0.10	7.52	42.1			7.48					0.30	Difficult to measure waterflow
PFM000068	2002-06-11 11:00	0.03	7.44	50.9	0.00		1.97					0.50	
PFM000068	2002-06-23 18:00	0.20	7.35	310.0			6.08					0.25	
PFM000068	2002-07-16 07:30	0.20	7.18	334.0			5.33					0.50	
PFM000068	2002-08-13 11:40	0.10	7.18	36.7	0.00		5.01					0.20	No waterflow measurement possible! No sampling, dry stream
PFM000068	2002-09-03 07:30	0.20	7.53	45.0	0.22		5.79					0.10	
PFM000068	2002-09-16 18:00	0.00										0.15	
PFM000068	2002-10-22 07:30	0.50	7.32	38.2	0.18		6.75					0.65	
PFM000068	2002-11-13 07:00	0.50	7.11	39.7	0.19		2.35					0.50	
PFM000068	2002-11-26 07:00	0.50	7.13	22.5	0.11		9.85					0.30	
PFM000068	2002-12-18 07:30	0.10	7.01	31.2	0.15		5.59			38	1006.6	0.30	
PFM000068	2003-01-16 08:00	0.10	6.92	33.0	0.16		3.21			-22	984.4	0.30	
PFM000069	2002-03-19 16:30	0.00	6.86	32.0	0.15		6.05			60	1011.0	0.50	
PFM000069	2002-04-01 16:45	0.20	6.82	33.7			1.71					0.50	
PFM000069	2002-04-17 13:45	0.50	6.79	26.5			2.82					0.50	
PFM000069	2002-04-17 13:45	0.50	7.00	28.4			4.73					0.30	Ph, Cond. and sal. measured after 1hr.
PFM000069	2002-05-06 19:30	0.10	7.28	36.2			5.63					0.30	No information on airtemp.
PFM000069	2002-05-13 17:00	0.10	7.28	381.0			5.24					0.20	
PFM000069	2002-05-28 11:40	0.10	7.45	41.8			7.06					0.02	
PFM000069	2002-06-11 00:00	0.01	7.39	51.1	0.00		2.96					0.17	
PFM000069	2002-06-24 07:30	0.10	7.29	401.0			5.48					0.20	
PFM000069	2002-07-16 07:30	0.15	7.14	382.0			5.63					0.08	
PFM000069	2002-08-13 11:10	0.05	7.20	39.2	0.00		5.08					0.05	
PFM000069	2002-09-03 07:30	0.10	7.46	44.0	0.21		7.16					0.08	No sampling, Very low water level.
PFM000069	2002-09-20 10:03	0.00										0.05	
PFM000069	2002-10-22 07:30	0.05	7.18	35.3	0.17		6.11					0.05	

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PFM000069	2002-11-13 07:00	0.05	7.06	36.1	0.17		1.27					0.10	
PFM000069	2002-11-26 07:00	0.05	7.09	32.7	0.16		7.39					0.34	
PFM000069	2002-12-18 07:30	0.10	6.93	38.4	0.18		0.97			1	1007.2	0.30	
PFM000069	2003-01-16 08:00	0.10	6.81	41.5	0.20		1.09			-117	983.7	0.25	
PFM000069	2003-02-19 07:30	0.10	6.76	36.1	0.17		2.55			14	1014.0	0.25	
PFM000070	2002-03-18 12:30	0.10	6.96	23.7			4.41					0.50	
PFM000070	2002-04-02 11:35	0.10	7.01	16.5			5.49					0.40	
PFM000070	2002-04-16 10:00	0.10	7.42	28.0			9.20					0.30	
PFM000070	2002-05-06 16:02	0.10	7.76	26.4			8.82					0.20	
PFM000070	2002-05-13 14:40	0.05	7.40	26.8			4.49					0.10	
PFM000070	2002-06-11 00:00	0.00											No sampling, dry stream
PFM000070	2002-06-25 07:30	0.02	7.20	231.0			5.38					0.10	Very slow waterflow, difficult to sample
PFM000070	2002-07-16 07:30	0.20	7.15	223.0			4.05					0.30	
PFM000070	2002-08-13 09:30	0.05	7.09	23.3	0.00		3.12					0.10	Difficult to measure flow
PFM000070	2002-09-20 10:03	0.00											No sampling, dry stream
PFM000070	2002-11-13 07:00	0.10	6.98	23.6	0.11		4.10					0.05	
PFM000070	2002-11-26 07:00	0.10	7.85	20.4	0.10		12.69					0.25	
PFM000070	2002-12-18 07:30	0.10	7.59	11.6	0.05		11.80			107	1003.5	0.20	
PFM000070	2003-01-16 08:00	0.10	7.58	23.8	0.11		9.16			-33	984.5	0.20	
PFM000070	2003-02-18 07:30	0.10	7.25	24.9	0.12		2.73			38	1023.8	0.20	Flöde 2x1.6x0.15/21=0.02286
PFM000071	2002-03-18 10:00	0.10	7.10	36.4			7.63					0.20	
PFM000071	2002-04-01 13:30	0.20	7.31	31.3			8.67					0.50	
PFM000071	2002-04-16 11:00	0.10	7.51	37.4			9.63					0.20	Sample taken from water not moving!
PFM000071	2002-05-05 12:00	0.10	7.68	40.3	10.00		11.37					0.20	
PFM000071	2002-05-13 14:00	0.05	7.69	405.0			4.70					0.10	
PFM000071	2002-06-11 00:00	0.00											No sampling, dry stream
PFM000071	2002-06-25 07:30	0.05	7.09	318.0			6.10					0.10	
PFM000071	2002-07-16 07:30	0.10	7.22	400.0			4.20					0.10	
PFM000071	2002-08-13 09:00	0.05	7.47	43.5	0.00		1.83					0.10	
PFM000071	2002-09-20 10:03	0.00											No sampling, dry stream
PFM000071	2002-11-13 07:00	0.50	7.28	39.8	0.19		4.44					0.03	
PFM000071	2002-11-26 07:00	0.50	7.34	33.1	0.16		9.07					0.15	

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PFM000071	2002-12-18 07:30	0.10	0.1	7.27	36.5	0.17		4.55			114	1002.0	0.10	
PFM000071	2003-01-15 08:00	0.10	0.1	7.28	35.6	0.17		3.70			-1	981.5	0.30	
PFM000071	2003-02-18 07:30	0.10	0.0	7.43	32.8	0.15		8.87			47	1022.3	0.25	
PFM000072	2002-03-18 15:00	0.50	0.0	6.80	35.9			0.45					1.40	
PFM000072	2002-04-01 19:45	0.20	1.2	7.02	30.0			0.56					1.00	
PFM000072	2002-04-15 16:29	0.50	6.3	7.17	32.3			4.71					0.70	
PFM000072	2002-05-06 12:00	0.20	9.6	7.38	31.3			4.91					0.50	
PFM000072	2002-05-13 15:50	0.50	14.8	7.21	34.3			3.46					0.60	
PFM000072	2002-05-27 21:00	0.20	13.0	7.39	43.9			3.65					0.50	
PFM000072	2002-06-10 21:00	0.50	15.6	7.11	54.7	0.00		1.08					0.30	
PFM000072	2002-06-23 18:00	0.50	13.6	7.03	253.0			3.84					0.70	
PFM000072	2002-07-15 07:30	0.20	15.7	6.98	359.0			1.96					1.00	
PFM000072	2002-08-12 20:30	0.50	19.2	7.33	36.6	0.00		2.89					0.50	Difficult to measure flow
PFM000072	2002-09-01 17:00	0.00												No sampling, dry stream
PFM000072	2002-09-16 18:00	0.00												No sampling, dry stream
PFM000072	2002-11-12 08:00	0.10	1.8	6.86	58.0	0.28		1.38					0.50	
PFM000072	2002-11-26 07:00	0.10	1.4	6.78	31.0	0.15		1.36					0.95	
PFM000072	2002-12-18 07:30	0.10	0.4	6.74	52.3	0.25		0.43			-202	1005.9	1.00	
PFM000072	2003-01-16 08:00	0.10	0.6	6.63	76.5	0.37		0.27			-239	985.4	0.60	
PFM000072	2003-02-19 07:30	0.10	0.0	6.40	44.0	0.21		0.20			-203	1015.1	0.50	
PFM000073	2002-03-18 17:40	0.10	1.6	7.51	69.2			9.82					0.20	
PFM000073	2002-04-02 09:20	0.05	3.3	7.74	66.8	0.10		10.80					0.10	
PFM000073	2002-04-15 18:10	0.10	5.2	7.95	69.6	0.10		12.48					0.05	
PFM000073	2002-05-06 18:35	0.10	12.0	8.06	65.5	0.10		9.83					0.20	Sample contaminated due to low waterleve
PFM000073	2002-05-13 16:30	0.03	17.0	7.92	62.0			7.14						No sampling, dry stream
PFM000073	2002-06-10 00:00	0.00												No sampling, dry stream
PFM000073	2002-06-23 18:00	0.00												Stream dry, no sample taken!
PFM000073	2002-07-15 07:30	0.00												Stream dried out, no sample taken!
PFM000073	2002-08-12 21:00	0.00												Sampling not possible
PFM000073	2002-09-01 17:00	0.00												No sampling, dry stream
PFM000073	2002-09-16 18:00	0.00												No sampling, dry stream
PFM000073	2002-11-12 08:00	0.00												No sampling, dry stream

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Idcode	Date and time	Depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyll ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Comment
PFM000073	2002-11-26 07:00	0.05	3.4	7.67	58.5	0.28			10.21				0.33	
PFM000073	2002-12-18 07:30	0.10	0.1	7.69	75.2	0.36			7.31		11	1006.3	0.10	
PFM000074	2002-03-20 08:31	1.00	0.6	7.11	51.8				1.52				1.40	
PFM000074	2002-05-05 12:00	1.00	11.6	7.50	333.0				7.77				1.00	
PFM000074	2002-06-09 00:00	0.50	22.8	7.77	34.9	0.00			13.99				1.00	
PFM000074	2002-06-23 18:00	0.50	17.5	7.25	331.0				8.47				1.00	
PFM000074	2002-07-14 19:00	0.50	20.1	7.17	379.0				5.65				1.00	
PFM000074	2002-08-11 20:00	0.50	20.9	7.08	40.0	0.00			7.26				1.00	
PFM000074	2002-09-02 07:30	0.50	17.3	7.76	35.0	0.17			10.13				0.90	
PFM000074	2002-09-15 18:00	0.50	12.8	7.71	35.0	0.17			9.67				1.00	
PFM000074	2002-11-12 08:00	0.50	3.5	7.45	34.1	0.16	56.9	2.30	8.08				1.00	
PFM000074	2002-11-26 07:00	0.00												
PFM000074	2002-12-17 07:30	0.50	2.7	7.04	35.3	0.17	5.4	1.70	0.44	10.6	-121	990.8	1.00	0-värde ljusmätning = 1,7 umol/m2sek
PFM000074	2003-01-16 08:00	0.50	0.0	7.10	42.2	0.20			0.78		-116	985.1	1.00	
PFM000074	2003-02-18 07:30	0.50	0.5	6.74	38.1	0.18	-0.5	11.00	1.79	9.2	-127	1022.3	0.90	
PFM000075	2002-03-20 09:35	0.30	0.0	7.34	30.6				6.27				0.90	
PFM000076	2002-03-20 09:11	0.50	0.1	7.31	31.4				6.38				0.80	
PFM000077	2002-03-20 08:22	0.50	0.2	7.29	33.2				5.04				1.00	
PFM000078	2002-03-20 08:56	0.50	0.1	7.32	31.2				9.98				0.90	
PFM000079	2002-03-20 08:45	0.50	0.6	7.22	35.3				3.16				1.20	
PFM000080	2002-03-20 09:02	0.50	0.0	7.35	31.4				5.62				0.90	
PFM000081	2002-03-20 09:40	0.30	0.3	7.11	46.5				2.81				0.80	
PFM000082	2002-03-20 12:10	0.50	0.8	7.92	873.0	4.60			13.34				7.00	
PFM000082	2002-03-20 12:10	1.00	0.7	7.88	876.0	4.60			13.04				7.00	
PFM000082	2002-03-20 12:10	-1.00	2.2	7.92	877.0	4.70			11.32				7.00	
PFM000082	2002-03-20 12:10	2.00	0.7	7.88	876.0	4.60			12.64				7.00	
PFM000082	2002-03-20 12:10	3.00	0.7	7.87	878.0	4.70			12.70				7.00	
PFM000082	2002-03-20 12:10	4.00	0.7	7.88	878.0	4.70			12.80				7.00	
PFM000082	2002-03-20 12:10	5.00	0.8	7.87	878.0	4.70			12.08				7.00	
PFM000082	2002-03-20 12:10	6.00	0.7	7.88	877.0	4.70			12.85				7.00	
PFM000082	2002-03-20 12:10	6.50	0.8	7.80	877.0	4.70			12.80				7.00	
PFM000082	2002-04-02 14:35	0.50	3.5	8.24	862.0	4.60			15.15				7.00	

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Idcode	Date and time	Depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umole/m <sup>2</sup>	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000082	2002-04-02 14:35	1.00	3.5	8.17	862.0	4.60			15.05				7.00	
PFM000082	2002-04-02 14:35	2.00	3.3	8.18	862.0	4.60			15.07				7.00	
PFM000082	2002-04-02 14:35	3.00	3.5	8.18	862.0	4.60			15.06				7.00	
PFM000082	2002-04-02 14:35	4.00	3.4	8.12	862.0	4.60			14.96				7.00	
PFM000082	2002-04-02 14:35	5.00	3.4	8.19	862.0	4.60			14.86				7.00	
PFM000082	2002-04-02 14:35	6.00	3.2	8.16	863.0	4.60			14.44				7.00	
PFM000082	2002-04-02 14:35	6.50	3.0	8.16	863.0	4.60			13.74				7.00	
PFM000082	2002-04-16 13:30	0.00												
PFM000082	2002-04-16 13:30	0.50	4.4	8.15	880.0	4.70			13.47					
PFM000082	2002-04-16 13:30	1.00	4.4	8.22	880.0	4.70			13.51					
PFM000082	2002-04-16 13:30	2.00	4.4	8.22	880.0	4.70			13.36					
PFM000082	2002-04-16 13:30	3.00	4.4	8.26	880.0	4.70			13.24					
PFM000082	2002-04-16 13:30	4.00	4.4	8.78	880.0	4.70			13.26					
PFM000082	2002-04-16 13:30	5.00	4.4	8.21	880.0	4.70			13.04					
PFM000082	2002-04-16 13:30	6.00	4.4	8.24	880.0	4.70			13.00					
PFM000082	2003-01-13 08:00	0.50	-0.1	7.83	715.9	3.83			13.67		111	991.0	7.00	
PFM000082	2003-01-13 08:00	1.00	-0.0	7.82	706.4	3.78			13.69		117	991.6	7.00	
PFM000082	2003-01-13 08:00	2.00	0.0	7.82	702.3	3.75			13.68		112	992.0	7.00	
PFM000082	2003-01-13 08:00	3.00	0.0	7.83	704.0	3.76			13.66		109	992.0	7.00	
PFM000082	2003-01-13 08:00	4.00	0.0	7.83	702.0	3.75			13.64		106	992.4	7.00	
PFM000082	2003-01-13 08:00	5.00	0.0	7.83	702.0	3.75			13.63		104	992.3	7.00	
PFM000082	2003-01-13 08:00	6.00	0.5	7.78	694.8	3.72			12.74		102	992.5	7.00	
PFM000082	2003-01-13 08:00	6.50	1.4	7.62	688.0	3.70			6.23		72	992.3	7.00	
PFM000082	2003-02-17 07:30	0.50	0.1	7.59	729.7	3.91	-1.6	51.50	12.83	1.1	131	1019.4	6.70	
PFM000082	2003-02-17 07:30	1.00	0.1	7.61	743.9	3.99	-1.5	28.80	12.92	1.1	131	1020.7	6.70	
PFM000082	2003-02-17 07:30	2.00	0.1	7.60	744.0	3.99	-1.4	11.30	12.93	1.3	132	1021.0	6.70	
PFM000082	2003-02-17 07:30	3.00	0.1	7.63	745.1	4.00	-1.4	10.40	12.92	0.9	132	1020.6	6.70	
PFM000082	2003-02-17 07:30	4.00	0.1	7.62	744.9	4.00	-1.4	4.40	12.94	1.2	133	1020.4	6.70	
PFM000082	2003-02-17 07:30	5.00	0.1	7.65	745.0	4.00	-1.3	2.80	12.87	1.1	133	1019.7	6.70	
PFM000082	2003-02-17 07:30	6.00	0.2	7.64	742.6	3.99	-1.3	1.70	12.71	1.1	134	1019.8	6.70	
PFM000082	2003-02-17 07:30	6.50	1.1	7.55	736.5	3.97	-0.6	2.00	8.91	1.4	133	1020.7	6.70	
PFM000083	2002-03-18 16:10	0.50	0.7		129.0	0.40			10.03					

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PFM000083	2002-03-18 16:10	1.00	0.7	182.5	0.70			11.49					
PFM000083	2002-03-18 16:10	-1.00	1.2	664.0	3.40			11.60				7.30	
PFM000083	2002-03-18 16:10	2.00	0.7	851.0	4.50			12.30					
PFM000083	2002-03-18 16:10	3.00	1.2	873.0	4.60			12.46					
PFM000083	2002-03-18 16:10	4.00	1.4	877.0	4.70			12.44					
PFM000083	2002-03-18 16:10	5.00	1.7	876.0	4.70			12.06					
PFM000083	2002-03-18 16:10	6.00	1.8	876.0	4.70			11.80					
PFM000083	2002-03-18 16:10	6.50	1.9	876.0	4.70			11.94					
PFM000083	2002-04-01 18:15	0.50	2.9	836.0	4.40			14.76				7.00	
PFM000083	2002-04-01 18:15	1.00	3.0	837.0	4.40			14.59				7.00	
PFM000083	2002-04-01 18:15	2.00	2.8	838.0	4.50			13.99				7.00	
PFM000083	2002-04-01 18:15	3.00	2.8	838.0	4.50			13.92				7.00	
PFM000083	2002-04-01 18:15	4.00	2.7	842.0	4.50			13.34				7.00	
PFM000083	2002-04-01 18:15	5.00	2.6	842.0	4.50			13.44				7.00	
PFM000083	2002-04-01 18:15	6.00	3.0	853.0	4.50			14.38				7.00	
PFM000083	2002-04-01 18:15	6.50	2.9	872.0	4.70			13.75				7.00	
PFM000083	2002-04-16 19:37	0.50	4.4	880.0	4.70			13.66				6.20	
PFM000083	2002-04-16 19:37	1.00	4.5	880.0	4.70			13.64				6.20	
PFM000083	2002-04-16 19:37	2.00	4.5	880.0	4.70			13.60				6.20	
PFM000083	2002-04-16 19:37	3.00	4.4	880.0	4.70			13.61				6.20	
PFM000083	2002-04-16 19:37	4.00	4.5	880.0	4.70			13.60				6.20	
PFM000083	2002-04-16 19:37	5.00	4.5	880.0	4.70			13.57				6.20	
PFM000083	2002-04-16 19:37	6.00	4.5	880.0	4.70			13.59				6.20	
PFM000084	2002-03-20 13:30	0.50	0.7	101.0	0.20			9.58				3.00	
PFM000084	2002-03-20 13:30	1.00	0.9	137.5	0.50			9.44				3.00	
PFM000084	2002-03-20 13:30	-1.00	1.4	555.0	2.80			11.01				3.00	
PFM000084	2002-03-20 13:30	2.00	0.4	860.0	4.50			12.30				3.00	
PFM000084	2002-03-20 13:30	2.50	0.5	866.0	4.60			12.24				3.00	
PFM000084	2002-04-02 10:30	0.50	4.7	80.2	0.20			11.16				3.00	
PFM000084	2002-04-02 10:30	1.00	5.5	246.0	1.10			11.38				3.00	
PFM000084	2002-04-02 10:30	2.00	2.3	791.0	4.20			12.77				3.00	
PFM000084	2002-04-02 10:30	2.50	1.8	842.0	4.50			12.13				3.00	

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PFM000084	2002-04-17 18:30	0.50	5.2	7.89	109.1	0.30		12.07						
PFM000084	2002-04-17 18:30	1.00	5.2	7.87	109.6	0.30		11.79						
PFM000084	2002-04-17 18:30	2.00	5.2	7.86	111.4	0.30		11.12						
PFM000084	2002-04-17 18:30	2.50	5.2	7.86	133.0	0.40		11.69						
PFM000085	2002-03-20 08:13	0.50	0.3	7.23	33.3			4.59					0.90	
PFM000086	2002-03-20 09:21	0.30	0.1	7.34	30.6			6.08					0.90	
PFM000087	2002-03-19 17:55	0.50	0.7	7.32	38.6			2.82					2.00	
PFM000087	2002-03-19 17:55	1.00	1.0	7.15	39.8			1.80					2.00	
PFM000087	2002-03-19 17:55	1.50	2.7	7.03	64.7			0.13					2.00	Smells hydrosulphuric acid
PFM000087	2002-03-19 17:55	1.80	3.3	6.99	66.7			0.05					2.00	Smells hydrosulphuric acid
PFM000087	2002-04-17 16:00	0.50	5.0	7.82	35.0			12.34					2.00	
PFM000087	2002-04-17 16:00	1.00	5.1	7.83	35.0			12.38					2.00	
PFM000087	2002-04-17 16:00	1.50	5.0	7.82	35.1			12.37					2.00	
PFM000087	2002-04-17 16:00	1.80	5.1	7.82	35.0			12.35					2.00	
PFM000087	2002-05-05 12:00	0.50	12.5	7.80	38.9			10.19					2.00	
PFM000087	2002-05-05 12:00	1.00	12.1	7.78	38.9			10.06					2.00	
PFM000087	2002-05-05 12:00	1.50	11.5	7.73	38.9			9.77					2.00	
PFM000087	2002-05-05 12:00	1.80	11.5	7.72	38.9			9.59					2.00	
PFM000087	2002-05-12 12:00	0.50	17.4	8.01	390.0			11.47					2.00	
PFM000087	2002-05-12 12:00	1.00	17.3	7.95	392.0			11.42					2.00	
PFM000087	2002-05-12 12:00	1.50	15.0	7.95	390.0			10.53					2.00	
PFM000087	2002-05-12 12:00	1.80	13.6	7.87	390.0			10.89					2.00	
PFM000087	2002-05-26 12:00	0.50	15.4	7.78	38.8			9.50					2.10	
PFM000087	2002-05-26 12:00	1.00	15.4	7.78	38.8			9.49					2.10	
PFM000087	2002-05-26 12:00	1.50	15.3	7.77	38.8			8.92					2.10	
PFM000087	2002-05-26 12:00	1.80	15.0	7.80	39.1			8.90					2.10	
PFM000087	2002-06-09 00:00	0.50	23.6	8.06	33.4	0.00		12.21					1.80	
PFM000087	2002-06-09 00:00	1.00	22.3	7.96	34.3	0.00		10.25						
PFM000087	2002-06-09 00:00	1.50	21.2	7.94	36.9	0.00		9.29						
PFM000087	2002-06-23 18:00	0.50	19.3	7.90	318.0			8.48					1.80	
PFM000087	2002-06-23 18:00	1.00	19.3	7.88	318.0			8.38					1.80	
PFM000087	2002-06-23 18:00	1.50	19.3	7.83	318.0			8.35					1.80	

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PFM000087	2002-07-14 19:00	0.50	23.4	7.32	374.0				10.20				1.70	
PFM000087	2002-07-14 19:00	1.00	21.6	7.80	379.0				7.50				1.70	
PFM000087	2002-07-14 19:00	1.50	20.1	7.72	439.0				5.33				1.70	
PFM000087	2002-08-11 21:30	0.50	22.9	7.74	39.0	0.00			12.85				1.70	
PFM000087	2002-08-11 21:30	1.00	21.5	7.68	39.9	0.00			6.27				1.70	
PFM000087	2002-08-11 21:30	1.50	20.8	7.20	48.0	0.00			2.73				1.70	
PFM000087	2002-09-02 07:30	0.50	18.2	7.92	34.0	0.20			10.01				1.70	
PFM000087	2002-09-02 07:30	1.00	18.2	7.92	34.0	0.20			9.89				1.70	
PFM000087	2002-09-02 07:30	1.50	18.1	7.87	34.0	0.16			9.50				1.70	
PFM000087	2002-09-15 18:00	0.50	13.0	8.03	33.0	0.20			10.65				1.60	
PFM000087	2002-09-15 18:00	1.00	13.0	8.03	33.0	0.20			10.62				1.60	
PFM000087	2002-09-15 18:00	1.50	13.0	7.76	33.0	0.16			7.15				1.60	
PFM000087	2002-11-12 08:00	0.50	1.8	8.09	30.5	0.10	-0.1	12.10	12.94				1.90	
PFM000087	2002-11-12 08:00	1.00	4.2	7.79	29.6	0.10	-3.2	5.80	9.30				1.90	
PFM000087	2002-11-12 08:00	1.50	4.3	7.71	30.0	0.14	-2.3	3.30	6.89				1.90	
PFM000087	2002-11-26 07:00	0.00												
PFM000087	2002-12-16 08:00	0.50	1.7	7.20	28.4	0.13	4.9	1.70	3.55	9.9	144	1006.6	1.80	0-värde ljusmätning = 1,6 umol/m2sek
PFM000087	2002-12-16 08:00	1.00	2.6	7.29	28.9	0.14	4.8	1.90	2.41	8.0	137	1007.2	1.80	0-värde ljusmätning = 1,6 umol/m2sek
PFM000087	2002-12-16 08:00	1.50	3.3	7.43	31.4	0.15	5.1	1.80	0.51	7.3	23	1007.9	1.80	0-värde ljusmätning = 1,6 umol/m2sek
PFM000087	2003-01-15 08:00	0.50	0.1	7.09	45.8	0.22			0.80		-238	978.0	1.80	
PFM000087	2003-01-15 08:00	1.00	2.0	7.06	47.2	0.23			0.16		-262	977.6	1.80	
PFM000087	2003-01-15 08:00	1.50	2.7	7.06	47.4	0.23			0.07		-278	977.6	1.80	
PFM000087	2003-02-18 07:30	0.50	1.1	6.82	40.6	0.19	-1.1	5.40	3.24	8.1	-123	1019.7	1.90	
PFM000087	2003-02-18 07:30	1.00	3.0	6.92	49.9	0.24	-0.7	1.90	0.19	11.7	-180	1020.0	1.90	
PFM000087	2003-02-18 07:30	1.50	3.5	6.92	51.3	0.25	-0.9	0.20	0.00	11.1	-184	1018.1	1.90	
PFM000088	2002-03-19 18:18	0.50	0.3	7.27	38.7				5.23				1.10	
PFM000089	2002-03-19 18:18	0.50	0.3	7.28	38.2				5.12				1.50	
PFM000090	2002-03-19 18:40	0.50	0.1	7.28	38.3				5.50				1.00	
PFM000091	2002-03-19 18:33	0.50	0.2	7.27	38.2				5.48				1.00	
PFM000092	2002-03-19 17:33	0.50	1.0	7.35	42.4				3.68				1.00	
PFM000093	2002-03-19 17:48	0.50	0.8	7.31	34.2				4.34				1.30	
PFM000094	2002-03-19 17:25	0.50	1.4	7.11	42.8				3.31				0.70	

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PFM000095	2002-03-19 17:40	0.50	1.5	7.07	56.2				0.35				1.00	
PFM000096	2002-03-19 18:25	0.50	0.3	7.22	36.2				5.19				1.50	
PFM000097	2002-03-19 11:55	0.50	2.1	7.11	47.2				2.47				1.00	
PFM000097	2002-04-17 11:30	0.50	4.2	7.99	80.3	0.10			12.75				1.00	Newly dead Pike found, about 1 kg!
PFM000097	2002-05-06 10:00	0.50	11.3	7.87	78.1	0.10			10.58				1.00	
PFM000097	2002-05-13 12:00	0.50	17.0	8.02	79.3	0.10			9.30				1.00	
PFM000097	2002-05-27 10:00	0.50	14.0	8.18	83.0	0.20			10.32				1.00	
PFM000097	2002-06-10 10:15	0.50	22.5	8.38	101.0	0.30			10.15				1.00	
PFM000097	2002-06-24 07:30	0.50	18.5	8.20	908.0	0.20			10.52				1.00	
PFM000097	2002-07-15 07:30	0.50	22.9	7.50	696.0	0.10			9.46				1.00	
PFM000097	2002-08-12 18:05	0.50	24.6	8.71	57.9	0.00			13.61				1.00	
PFM000097	2002-09-02 07:30	0.50	18.0	9.19	56.0	0.27			14.19				1.00	
PFM000097	2002-09-16 18:00	0.50	11.6	9.11	63.0	0.31			15.30				0.80	
PFM000097	2002-11-26 07:00	0.00												
PFM000097	2002-12-17 07:30	0.50	4.8	7.50	58.9	0.29	5.8	3.00	1.44	5.9	-131	991.3	0.70	0-värde ljusmätning = 3,6 umol/m2sek
PFM000097	2003-01-15 08:00	0.50	1.9	7.20	73.0	0.35			0.31		-272	977.6	1.00	
PFM000097	2003-02-18 07:30	0.50	2.8	6.95	93.6	0.46	0.0		-0.03	11.4	-210	1013.0	0.80	OBS PAR ej mätt i vattnet, alltför grunt
PFM000098	2002-03-19 10:25	0.50	2.1	7.00	42.2				3.19				0.70	
PFM000099	2002-03-19 10:44	0.50	2.2	6.99	42.8				3.13				0.50	
PFM000100	2002-03-19 11:30	0.50	2.0	7.04	57.8				0.83				1.00	
PFM000101	2002-03-19 10:35	0.50	2.4	6.99	40.5				10.95				0.50	
PFM000102	2002-03-19 11:08	0.50	2.2	7.03	53.3				1.36				0.80	
PFM000103	2002-03-19 10:53	0.50	2.3	7.30	39.7				3.90				0.90	
PFM000104	2002-03-19 11:45	0.50	1.3	6.92	52.2				0.68				0.70	
PFM000105	2002-03-19 12:03	0.50	2.9	7.11	43.8				2.46				1.00	
PFM000105	2002-03-19 12:03	0.70	3.4	6.97	66.8	3.50			1.45				1.00	
PFM000106	2002-03-19 11:18	0.50	2.1	7.01	87.3	0.20			1.50				1.10	
PFM000107	2002-03-19 08:24	0.50	1.9	7.16	30.0				1.77				1.60	
PFM000107	2002-03-19 08:24	1.00	2.8	7.03	60.4	0.30			0.96				1.60	
PFM000107	2002-03-19 08:24	1.40	3.4	6.94	494.0	2.70			1.27				1.60	
PFM000107	2002-04-01 09:30	0.50	5.1	6.97	25.3				4.85					

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Idcode	Date and time	Depth Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000107	2002-04-01 09:30	1.00	4.9	104.3	0.20			1.77					
PFM000107	2002-04-01 09:30	1.40	5.0	479.0	2.40			6.26					
PFM000107	2002-04-17 09:30	0.50	4.7	82.0	0.10			12.45				1.50	
PFM000107	2002-04-17 09:30	1.00	4.7	82.0	0.10			12.50				1.50	
PFM000107	2002-04-17 09:30	1.40	4.9	82.0	0.10			12.45				1.50	
PFM000107	2002-05-06 12:00	0.50	11.2	70.4	0.10			11.02					Airtemp. is guessed!
PFM000107	2002-05-06 12:00	1.00	11.3	70.5	0.10			11.02					Airtemp. is guessed!
PFM000107	2002-05-06 12:00	1.50	11.3	70.5	0.10			10.99					Airtemp. is guessed!
PFM000107	2002-05-13 12:00	0.50	16.5	68.9	0.10			10.15				1.90	
PFM000107	2002-05-13 12:00	1.00	16.4	68.9	0.10			10.14				1.90	
PFM000107	2002-05-13 12:00	1.50	16.3	68.8	0.10			9.68				1.90	
PFM000107	2002-05-27 08:30	0.50	14.1	71.3	0.10			10.04				1.80	
PFM000107	2002-05-27 08:30	1.00	14.1	8.58	71.3	0.10		10.05				1.80	
PFM000107	2002-05-27 08:30	1.50	14.1	8.54	71.2	0.10		10.04				1.80	
PFM000107	2002-06-10 09:00	0.50	22.6	74.8	0.10			9.07				1.60	
PFM000107	2002-06-10 09:00	1.00	22.5	74.9	0.10			9.36				1.60	
PFM000107	2002-06-24 07:30	0.50	18.4	717.0	0.10			9.42				1.60	
PFM000107	2002-06-24 07:30	1.00	18.4	717.0	0.10			9.40				1.60	
PFM000107	2002-07-15 07:30	0.50	23.6	616.0				9.77				1.80	
PFM000107	2002-07-15 07:30	1.00	23.5	8.47	620.0			9.00				1.80	Sediment/växtlighet 1,5
PFM000107	2002-08-12 00:00	0.50	24.2	8.57	52.9	0.00		10.30				1.60	
PFM000107	2002-08-12 00:00	1.00	24.1	8.57	52.9	0.00		10.40				1.60	
PFM000107	2002-09-02 07:30	0.50	18.1	8.67	50.0	0.20		10.87				1.60	
PFM000107	2002-09-02 07:30	1.00	18.1	8.69	50.0	0.24		10.83				1.60	
PFM000107	2002-09-16 18:00	0.50	11.7	8.57	54.0	0.30		11.51				1.60	Pegel avläst 7 kl 13:45"
PFM000107	2002-09-16 18:00	1.00	11.7	8.57	54.0	0.26		11.44				1.60	
PFM000107	2002-11-12 08:00	0.50	1.0	7.97	49.5	0.24	33.80	12.89				1.00	
PFM000107	2002-11-26 07:00	0.00											
PFM000107	2002-12-17 07:30	0.50	3.0	7.67	37.5	0.18	5.70	7.37	4.3	147	1001.4	1.60	0-värde ljusmätning = 7,6 umol/m2sek
PFM000107	2002-12-17 07:30	1.00	4.4	7.54	40.5	0.19	3.70	4.59	4.2	148	1001.3	1.60	0-värde ljusmätning = 7,6 umol/m2sek
PFM000107	2003-01-16 08:00	0.50	1.6	7.23	44.0	0.21		2.14		-21	984.0	1.70	
PFM000107	2003-01-16 08:00	1.00	3.7	7.19	48.7	0.23		0.35		-161	984.4	1.70	

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Idcode	Date and time	Depth m	Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000107	2003-02-17 07:30	0.50	1.6	6.84	40.4	0.19	-1.3	0.50	0.52	7.8	-48	1016.8	1.60	
PFM000107	2003-02-17 07:30	1.00	3.7	7.11	50.7	0.24	-1.1	0.20	0.12	8.2	-118	1018.0	1.60	
PFM000108	2002-03-19 09:15	0.50	2.7	7.06	30.0				2.18				1.10	
PFM000109	2002-03-19 08:13	0.50	3.4	6.91	30.0				0.91				1.10	
PFM000110	2002-03-19 07:08	0.50	1.9	7.29	35.0				0.39				1.30	
PFM000111	2002-03-19 08:47	0.50	2.1	7.14	30.0				2.25				1.60	
PFM000112	2002-03-19 07:30	0.50	1.1	7.09	29.9				2.83				1.20	
PFM000113	2002-03-19 07:40	0.50	3.0	6.83	30.9				0.30				1.40	
PFM000114	2002-03-19 09:00	0.50	2.0	7.90	29.2				2.77				1.10	
PFM000115	2002-03-19 07:20	0.50	1.1	7.07	30.0				8.21				0.90	
PFM000116	2002-03-19 07:55	0.50	3.3	6.65	29.2				7.06				0.90	
PFM000117	2002-03-18 11:55	0.50	2.7	7.18	32.1				2.50				2.10	
PFM000117	2002-03-18 11:55	1.00	2.9	7.25	33.1				1.30				2.10	
PFM000117	2002-03-18 11:55	1.50	3.6	7.33	35.8				0.18				2.10	
PFM000117	2002-04-01 11:00	0.50	5.9	6.97	30.1				2.21					
PFM000117	2002-04-01 11:00	1.00	4.7	7.12	32.9				1.26					
PFM000117	2002-04-01 11:00	1.50	4.7	7.31	35.7				2.52					
PFM000117	2002-04-16 09:15	0.50	6.4	7.91	28.1				11.91				2.00	
PFM000117	2002-04-16 09:15	1.00	6.4	7.92	28.1				11.85				2.00	
PFM000117	2002-04-16 09:15	1.50	6.4	7.86	28.1				11.78				2.00	
PFM000117	2002-05-05 14:40	0.50	12.9	8.32	26.7				11.39					
PFM000117	2002-05-05 14:40	1.00	12.8	8.29	26.7				11.38					
PFM000117	2002-05-05 14:40	1.50	12.4	8.31	26.7				11.38					
PFM000117	2002-05-13 15:00	0.50	17.0	8.41	259.0				11.02					2.10 No information on airtemp.
PFM000117	2002-05-13 15:00	1.00	16.4	8.36	263.0				11.22					2.10 No information on airtemp.
PFM000117	2002-05-13 15:00	1.50	16.1	8.36	264.0				11.04					2.10 No information on airtemp.
PFM000117	2002-05-28 08:50	0.50	15.7	8.43	25.9				10.67				2.20	
PFM000117	2002-05-28 08:50	1.00	15.7	8.44	25.9				10.59				2.20	
PFM000117	2002-05-28 08:50	1.50	15.8	8.40	25.9				10.58				2.20	
PFM000117	2002-06-11 09:00	0.50	22.9	8.48	24.2	0.00			9.81				2.10	
PFM000117	2002-06-11 09:00	1.00	22.9	8.47	24.2	0.00			9.85					
PFM000117	2002-06-11 09:00	1.50	22.5	8.46	24.2	0.00			9.79					

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Idcode	Date and time	Depth Water temperature °C	pH	Conductivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000117	2002-06-25 07:30	19.8	8.52	221.0				9.78				2.10	
PFM000117	2002-06-25 07:30	19.8	8.52	221.0				9.80				2.10	
PFM000117	2002-06-25 07:30	19.6	8.48	222.0				9.60				2.10	
PFM000117	2002-07-16 07:30	23.6	8.30	215.0				9.30				2.10	
PFM000117	2002-07-16 07:30	23.4	8.35	216.0				9.25				2.10	
PFM000117	2002-07-16 07:30	23.2	8.30	217.0				9.05				2.10	
PFM000117	2002-08-13 08:00	23.2	8.30	22.1	0.00			9.28				2.10	
PFM000117	2002-08-13 08:00	23.1	8.29	22.1	0.00			9.28				2.10	
PFM000117	2002-08-13 08:00	23.1	8.17	22.1	0.00			9.08				2.10	
PFM000117	2002-09-03 07:30	17.7	8.42	21.0	0.10			9.55				2.10	
PFM000117	2002-09-03 07:30	17.6	8.42	21.0	0.10			9.54				2.10	
PFM000117	2002-09-03 07:30	17.4	8.40	21.0	0.10			9.30				2.10	
PFM000117	2002-09-17 18:00	12.7	8.43	21.0	0.10			10.66				2.10	Pegel 110 avläst ung kl 08:00
PFM000117	2002-09-17 18:00	12.7	8.42	22.0	0.10			10.56				2.10	
PFM000117	2002-09-17 18:00	12.7	8.42	22.0	0.10			10.52				2.10	
PFM000117	2002-11-12 08:00												
PFM000117	2002-11-26 07:00												
PFM000117	2002-12-17 07:30	3.1	7.96	16.6	0.08	4.3	15.40	10.39	4.2	109	994.2	2.20	0-värde ljusmätning = 24,8 umol/m2sek
PFM000117	2002-12-17 07:30	4.5	7.67	18.6	0.09	4.3	9.70	5.60	4.3	114	994.8	2.20	0-värde ljusmätning = 24,8 umol/m2sek
PFM000117	2002-12-17 07:30	4.9	7.58	19.5	0.09	4.6	7.10	2.88	5.4	114	995.3	2.20	0-värde ljusmätning = 24,8 umol/m2sek
PFM000117	2003-01-15 08:00	0.8	7.83	24.2	0.11			10.43		22	980.0	2.10	
PFM000117	2003-01-15 08:00	2.9	7.50	24.4	0.12			2.35		26	979.8	2.10	
PFM000117	2003-01-15 08:00	4.1	7.43	25.7	0.12			0.77		23	979.8	2.10	
PFM000117	2003-02-18 07:30	1.8	7.09	26.2	0.12	-1.5	2.50	1.76	5.3	120	1017.7	1.90	PAR ovan ytan (i luft)~586.5
PFM000117	2003-02-18 07:30	3.5	7.18	26.3	0.13	-1.5	1.30	0.27	5.5	18	1019.2	1.90	PAR ovan ytan (i luft)~586.5
PFM000117	2003-02-18 07:30	4.9	7.19	28.2	0.13	-1.5	0.90	0.09	7.2	-102	1020.5	1.90	PAR ovan ytan (i luft)~586.5
PFM000118	2002-03-18 10:50	2.5	6.99	32.8				2.49				2.00	
PFM000119	2002-03-18 11:25	2.6	7.33	32.3				1.09				2.20	
PFM000120	2002-03-18 11:00	3.0	7.22	31.8				3.05				2.10	
PFM000121	2002-03-18 10:40	2.5	6.99	32.8				0.32				2.00	
PFM000122	2002-03-18 11:45	2.9	7.24	32.2				1.41				2.40	
PFM000123	2002-03-18 11:35	2.5	7.32	33.1				1.32				1.40	

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Idcode	Date and time	Depth m	Water temp- erature °C	pH	Conduc- tivity mS/m	Salinity ppt	Turbidity NTU	Light umolE/m <sup>2</sup>	Oxygen mg/l	Chlorophyl ug/l	Redox pot mV	Atm pressure hPa	Water depth m	Water Comment
PFM000124	2002-03-18 11:15	0.50	2.8	7.30	32.7				0.82				2.10	
PFM000125	2002-03-18 10:25	0.50	2.3	7.10	34.0				0.43				1.80	
PFM000126	2002-03-18 12:10	0.50	2.4	7.15	33.5				0.74				1.50	
PFM000127	2002-05-27 18:00	0.50	16.1	8.71	297.0				12.20				1.60	
PFM000127	2002-05-27 18:00	1.00	16.1	8.72	298.0				11.82				1.60	
PFM000127	2002-06-10 20:08	0.50	25.0	9.05	28.9	0.00			11.60				1.50	
PFM000127	2002-06-10 20:08	1.00	25.0	9.02	28.9	0.00			11.78				1.50	
PFM000127	2002-06-24 07:30	0.50	20.5	8.79	278.0				10.73				1.50	
PFM000127	2002-06-24 07:30	1.00	20.1	8.60	278.0				10.67				1.50	
PFM000127	2002-07-15 07:30	0.50	25.4	8.65	289.0				10.75				1.70	
PFM000127	2002-07-15 07:30	1.00	25.2	8.67	290.0				10.50				1.70	
PFM000127	2002-08-12 19:40	0.50	24.4	8.83	30.3	0.00			12.01				1.70	
PFM000127	2002-08-12 19:40	1.00	24.4	8.18	30.3	0.00			11.69				1.70	
PFM000127	2002-09-01 17:00	0.50	19.0	8.95	33.6	0.20			11.97				1.60	Instrument YSI 600 QS Pegel 87 cm
PFM000127	2002-09-01 17:00	1.10	19.0	8.95	33.6	0.16			11.95				1.60	
PFM000127	2002-09-16 18:00	0.50	11.5	8.62	34.0	0.20			12.24				1.50	Pegel 83,5 avläst kl 17:00
PFM000127	2002-09-16 18:00	1.00	11.4	8.62	34.0	0.16			12.21				1.50	
PFM000127	2002-11-12 08:00	0.00												
PFM000127	2002-11-26 07:00	0.00												
PFM000135	2002-03-19 15:30	0.50	1.8	6.92	31.9				2.70				1.00	
PFM000135	2002-12-17 07:30	0.50	3.6	7.50	31.1	0.15	4.8	21.80	0.74	3.3	-73	997.6	1.00	0-värde ljusmätning = 25,1 umol/m2sek
PFM000135	2003-01-15 08:00	0.50	0.7	7.39	47.1	0.22			0.72		-235	983.7	1.20	
PFM000147	2002-03-18 12:45	-1.00	2.6	7.39	33.0				9.40					
PFM000151	2002-04-02 12:40	0.50	2.4	7.17	26.6				6.70				1.20	Only surface sample due to very bad ice!
PFM000151	2002-04-16 16:31	0.50	5.2	7.42	30.5				7.65				1.00	Only surfacesample!
PFM000151	2002-05-12 19:00	0.50	17.4	7.61	35.2				9.04				1.00	
PFM000151	2002-05-26 12:00	0.50	15.0	7.54	37.0				8.72				0.80	
PFM000153	2002-05-07 12:55	0.30	13.0	8.22	600.0	3.20			12.09				0.70	
PFM000153	2002-05-14 12:08	0.50	15.5	8.33	680.0	3.70			11.86				0.90	

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## **Appendix 3**

### **Water composition, compilation of major/basic components**

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000074	Lake Water	0,5	Surface	2002-05-05 12:00	4067	4,83	6,2	2,41	66,5	3,1	200	5,2	4,1	2,00	-0,20	0,20	3,7
PFM000074	Lake Water	0,5	Surface	2002-06-09 12:00	4143	-2,20	9,9	2,18	55,7	3,8	200	8,6	5,0	2,81	0,09	0,72	4,3
PFM000074	Lake Water	0,5	Surface	2002-06-23 19:15	4168	4,98	8,3	1,45	62,3	3,7	190	7,1	4,1	1,92	0,02	0,33	3,0
PFM000074	Lake Water	0,5	Surface	2002-07-14 00:00	4202	3,63	6,7	1,60	69,1	3,2	210	6,2	3,7	1,84	-0,20	0,57	4,1
PFM000074	Lake Water	0,5	Surface	2002-08-11 20:00	4224	-0,17	6,9	1,55	71,3	3,6	240	6,1	2,8	1,39	0,07	0,41	5,1
PFM000074	Lake Water	0,5	Surface	2002-09-02 07:30	4251	-0,76	10,5	1,44	70,8	4,1	226	20,5	5,3	1,93	0,09	0,56	7,9
PFM000074	Lake Water	0,5	Surface	2002-09-15 18:00	4276	-9,92	9,9	1,34	63,1	4,0	218	39,4	7,8	1,91	0,16	0,25	8,6
PFM000074	Lake Water	0,5	Surface	2002-10-01 07:30	4309	-2,39	10,1	1,36	62,7	4,1	204	23,7	5,7	1,68	0,09	0,31	7,9
PFM000074	Lake Water	0,5	Surface	2002-11-12 08:00	4337	0,96	10,5	1,75	66,1	4,0	222	10,3	3,4	1,73	0,09	0,31	7,1
PFM000074	Lake Water	0,5	Surface	2002-12-17 07:30	4415	2,33	6,2	2,50	69,3	3,5	182	7,4	33,9	11,0	-0,20	0,23	5,5
PFM000074	Lake Water	0,5	Surface	2003-01-16 07:30	4453	-2,44	9,0	2,62	84,0	4,4	245	12,2	27,3	14,4	-0,20	0,23	7,0
PFM000074	Lake Water	0,5	Surface	2003-02-18 07:30	4507	2,01	7,8	2,81	83,1	4,1	237	7,9	26,1	9,36	-0,20	0,24	6,2
PFM000086	Lake Water	0,2	Surface	2002-04-02 16:30	4038	7,81	5,8	2,07	48,1	2,6	140	2,8	3,9	2,01	-0,20	0,20	3,9
PFM000087	Lake Water	0,5	Surface	2002-04-17 16:00	4060	4,28	8,8	2,69	63,2	3,9	190	9,5	8,3	3,31	-0,20	0,40	3,9
PFM000087	Lake Water	1,8	Bottom	2002-04-17 16:00	4061	4,79	8,7	2,77	64,1	4,0	190	9,4	8,3	3,38	-0,20	0,41	3,9
PFM000087	Lake Water	0,5	Surface	2002-05-05 12:00	4065	4,76	11,1	2,87	70,7	4,4	210	13,4	8,4	3,55	-0,20	0,29	2,9
PFM000087	Lake Water	1,8	Bottom	2002-05-26 12:00	4118	4,54	12,9	2,82	61,9	5,0	190	16,6	7,5	3,07	-0,20	0,20	2,6
PFM000087	Lake Water	0,5	Surface	2002-06-09 00:00	4135	3,71	14,8	2,94	51,1	5,3	170	15,1	7,3	3,33	0,10	0,43	3,6
PFM000087	Lake Water	1,5	Bottom	2002-06-09 12:00	4142	2,91	15,0	2,96	53,5	5,4	180	15,4	7,2	3,35	-0,20	0,60	3,7
PFM000087	Lake Water	0,5	Surface	2002-06-23 20:30	4144	3,55	13,5	2,45	48,4	5,1	160	14,6	7,2	3,11	0,04	0,41	4,7
PFM000087	Lake Water	1,5	Bottom	2002-06-23 20:30	4148	4,01	13,5	2,59	48,7	5,2	160	14,5	7,2	3,07	0,04	0,33	4,7
PFM000087	Lake Water	1,5	Bottom	2002-07-14 23:00	4201	5,13	12,0	2,25	66,3	4,5	200	12,5	6,2	2,94	-0,20	0,54	5,0
PFM000087	Lake Water	0,5	Surface	2002-07-14 23:00	4200	6,48	12,0	2,19	64,9	4,4	190	12,0	6,4	3,04	0,09	0,30	6,3
PFM000087	Lake Water	1,5	Bottom	2002-08-11 21:30	4222	-0,61	9,8	2,45	66,2	4,6	230	10,4	5,4	2,29	0,09	0,43	6,1
PFM000087	Lake Water	0,5	Surface	2002-08-11 21:30	4203	-	9,8	2,34	65,4	4,5	220	10,3	5,3	2,34	0,09	0,43	6,1
PFM000087	Lake Water	0,5	Surface	2002-09-02 07:30	4263	2,77	12,3	2,32	65,4	5,1	213	12,5	6,1	2,78	0,12	0,64	10,1
PFM000087	Lake Water	1,5	Bottom	2002-09-02 07:30	4264	6,83	12,3	2,29	65,7	5,1	198	10,6	6,0	2,77	0,09	0,53	10,1

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- "value" = result less than detection limit  
ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000074	Lake Water	0,5	Surface	2002-05-05 12:00	4067			0,002	0,07	7,8	34,6		
PFM000074	Lake Water	0,5	Surface	2002-06-09 12:00	4143			0,002	0,08	7,9	36,0		0,006
PFM000074	Lake Water	0,5	Surface	2002-06-23 19:15	4168			0,002	0,08	8,0	34,1	-0,03	0,006
PFM000074	Lake Water	0,5	Surface	2002-07-14 00:00	4202	0,071		0,01	0,08	7,6	37,0		
PFM000074	Lake Water	0,5	Surface	2002-08-11 20:00	4224	0,050		0,02	0,09	7,5	39,6		0,011
PFM000074	Lake Water	0,5	Surface	2002-09-02 07:30	4251			0,003	0,10				0,009
PFM000074	Lake Water	0,5	Surface	2002-09-15 18:00	4276			0,002	0,09				0,008
PFM000074	Lake Water	0,5	Surface	2002-10-01 07:30	4309			0,003	0,09	7,9			0,007
PFM000074	Lake Water	0,5	Surface	2002-11-12 08:00	4337	0,026		-0,004	0,09	8,2			0,007
PFM000074	Lake Water	0,5	Surface	2002-12-17 07:30	4415			-0,004	0,07	7,2			
PFM000074	Lake Water	0,5	Surface	2003-01-16 07:30	4453	0,300	0,16	0,002	0,10	7,1			
PFM000074	Lake Water	0,5	Surface	2003-02-18 07:30	4507			-0,004	0,09	7,0			
PFM000086	Lake Water	0,2	Surface	2002-04-02 16:30	4038				0,05	7,4	26,0		
PFM000087	Lake Water	0,5	Surface	2002-04-17 16:00	4060	0,118		0,02	0,08	8,1	36,0		
PFM000087	Lake Water	1,8	Bottom	2002-04-17 16:00	4061	0,121		0,02	0,07	8,1	36,0		
PFM000087	Lake Water	0,5	Surface	2002-05-05 12:00	4065			0,002	0,09	8,0	40,0		
PFM000087	Lake Water	1,8	Bottom	2002-05-05 12:00	4066			0,002	0,09	8,0	40,0		0,006
PFM000087	Lake Water	0,5	Surface	2002-05-12 19:00	4088			0,002	0,08	8,1	40,1		0,009
PFM000087	Lake Water	1,8	Bottom	2002-05-12 19:00	4091			0,002	0,08	8,1	40,3		0,006
PFM000087	Lake Water	0,5	Surface	2002-05-26 12:00	4117			0,002	0,09	7,8	39,8		0,006
PFM000087	Lake Water	1,8	Bottom	2002-05-26 12:00	4118			0,002	0,09	7,8	40,4		0,006
PFM000087	Lake Water	0,5	Surface	2002-06-09 00:00	4135			0,003	0,09	8,1	34,3		0,006
PFM000087	Lake Water	1,5	Bottom	2002-06-09 12:00	4142			0,002	0,09	7,8	36,3		0,009
PFM000087	Lake Water	0,5	Surface	2002-06-23 20:30	4144			0,002	0,08	8,2	32,7	-0,03	0,006
PFM000087	Lake Water	1,5	Bottom	2002-06-23 20:30	4148			0,002	0,08	8,1	32,7	-0,03	0,006
PFM000087	Lake Water	1,5	Bottom	2002-07-14 23:00	4201	0,070	0,01	0,002	0,09	7,8	39,5		
PFM000087	Lake Water	0,5	Surface	2002-07-14 23:00	4200	0,068	0,01	0,002	0,09	8,0	37,7		
PFM000087	Lake Water	1,5	Bottom	2002-08-11 21:30	4222	0,084	0,02	0,002	0,10	7,7	41,2		0,008
PFM000087	Lake Water	0,5	Surface	2002-08-11 21:30	4203	0,074	0,01	0,002	0,11	8,1	38,8		0,009
PFM000087	Lake Water	0,5	Surface	2002-09-02 07:30	4263			0,003	0,11				0,012
PFM000087	Lake Water	1,5	Bottom	2002-09-02 07:30	4264			0,003	0,11				0,008

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000087	Lake Water	1,5	Bottom	2002-09-15 18:00	4279	-0,79	11,2	2,09	55,5	5,0	199	12,0	6,3	2,66	0,10	0,35	10,5
PFM000087	Lake Water	0,5	Surface	2002-09-15 18:30	4278	-1,70	11,1	1,77	55,5	5,0	200	13,3	6,5	2,63	0,11	0,40	10,5
PFM000087	Lake Water	0,5	Surface	2002-10-01 07:30	4292	3,06	11,5	2,05	50,7	5,1	170	12,0	6,3	2,43	0,10	0,31	9,8
PFM000087	Lake Water	1,5	Bottom	2002-10-01 07:30	4295	3,32	11,4	2,01	50,6	5,0	170	11,2	6,1	2,34	0,10	0,29	9,8
PFM000087	Lake Water	1,5	Bottom	2002-11-12 08:00	4331	0,57	11,9	2,17	54,5	5,1	189	14,6	5,6	2,18		0,33	9,4
PFM000087	Lake Water	0,5	Surface	2002-11-12 08:00	4327	2,62	12,1	2,11	52,5	5,2	180	11,2	5,6	2,53	0,10	0,32	9,5
PFM000087	Lake Water	1,5	Bottom	2002-12-16 08:00	4409	0,52	12,5	3,63	79,2	5,8	242	14,5	29,8	9,86	-0,20	0,40	6,9
PFM000087	Lake Water	0,5	Surface	2002-12-16 08:00	4407	2,23	10,0	3,25	77,1	4,7	210	11,6	34,4	12,1	-0,20	0,30	6,1
PFM000087	Lake Water	0,5	Surface	2003-01-15 07:30	4442	-1,90	11,5	3,88	93,9	6,2	309	14,9	33,4	8,66	-0,20	0,34	9,8
PFM000087	Lake Water	1,5	Bottom	2003-01-15 07:30	4449	-0,87	12,2	3,94	99,0	6,3	309	17,8	33,4	10,3	-0,20	0,34	9,2
PFM000087	Lake Water	0,5	Surface	2003-02-18 07:30	4485	-2,31	11,2	3,52	97,5	5,7	289	27,8	31,2	10,6	0,06	0,12	7,8
PFM000087	Lake Water	1,5	Bottom	2003-02-18 07:30	4486	0,84	13,7	4,38	112	6,5	348	15,0	24,5	9,16		0,36	9,2
PFM000097	Lake Water	0,5	Surface	2002-04-17 11:30	4056	-1,08	89,2	4,86	44,2	12,3	110	177	25,2	9,20	0,62	0,25	2,3
PFM000097	Lake Water	0,5	Surface	2002-05-06 10:00	4073	-1,62	89,7	4,82	45,2	12,3	120	176	24,2	9,30	0,87		1,4
PFM000097	Lake Water	0,5	Surface	2002-05-13 12:00	4099	-3,28	87,5	5,05	45,9	12,4	130	178	25,0	9,46	0,56		0,7
PFM000097	Lake Water	0,5	Surface	2002-05-27 10:00	4124	-4,56	91,9	5,25	46,6	13,1	140	191	27,6	9,22	0,65		0,2
PFM000097	Lake Water	0,5	Surface	2002-06-10 10:15	4150	-2,15	129	6,85	52,3	17,2	150	247	34,7	13,0	0,59	0,25	0,5
PFM000097	Lake Water	0,5	Surface	2002-06-24 10:30	4181	1,03	114	6,02	43,8	16,2	120	203	31,9	11,8	0,54	0,25	0,6
PFM000097	Lake Water	0,5	Surface	2002-07-15 00:00	4205	0,48	75,5	4,28	42,7	10,7	120	136	22,0	8,29	0,43	0,26	0,9
PFM000097	Lake Water	0,5	Surface	2002-08-12 18:05	4245	-1,61	57,9	3,46	39,5	8,9	120	109	19,5	6,83	0,41	0,32	1,5
PFM000097	Lake Water	0,5	Surface	2002-09-02 07:30	4260	3,42	77,2	4,05	35,7	10,8	106	122	21,8	8,18	0,41	0,44	0,3
PFM000097	Lake Water	0,5	Surface	2002-09-16 18:00	4287	-0,95	78,7	4,32	32,8	11,8	105	141	23,2	8,50	0,52	0,41	0,1
PFM000097	Lake Water	0,5	Surface	2002-09-30 07:30	4315	-4,36	71,2	3,85	28,0	10,7	96	137	23,8	8,49	0,60	0,27	0,042
PFM000097	Lake Water	0,5	Surface	2002-12-17 07:30	4426	7,18	46,3	3,84	51,0	8,3	146	59,2	30,4	8,83	-0,20	0,24	2,0
PFM000097	Lake Water	0,5	Surface	2003-01-15 07:30	4452	-2,26	51,4	4,34	58,6	9,4	190	95,9	22,3	7,63	0,25	0,50	2,1
PFM000097	Lake Water	0,5	Surface	2003-02-18 07:30	4499	0,04	35,4	3,60	65,2	7,5	198	61,5	22,6	8,05	0,16	0,28	4,2
PFM000107	Lake Water	0,5	Surface	2002-04-01 09:30	4018	-6,52	3,6	0,94	23,4	1,6	76	13,3	9,0	1,14	-0,06		2,3
PFM000107	Lake Water	1,4	Bottom	2002-04-01 10:00	4019	-14,42	231	10,5	58,6	29,5	150	607	106,9	21,5	3,17		2,1
PFM000107	Lake Water	0,5	Surface	2002-04-17 09:30	4058	-1,57	91,6	4,81	46,6	12,5	120	182	26,1	9,22	0,52	0,37	2,5
PFM000107	Lake Water	1,4	Bottom	2002-04-17 09:30	4059	-0,38	89,8	4,91	46,9	12,4	110	179	25,7	9,25	0,58	0,39	2,5
PFM000107	Lake Water	1,5	Bottom	2002-05-06 12:00	4069	-0,93	76,3	4,27	48,1	10,9	130	148	22,0	8,72	0,64		1,4

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000087	Lake Water	1,5	Bottom	2002-09-15 18:00	4279			0,003	0,10				0,008
PFM000087	Lake Water	0,5	Surface	2002-09-15 18:30	4278			0,003	0,09				0,012
PFM000087	Lake Water	0,5	Surface	2002-10-01 07:30	4292			0,003	0,09	8,6			0,007
PFM000087	Lake Water	1,5	Bottom	2002-10-01 07:30	4295			0,003	0,09	8,6			0,007
PFM000087	Lake Water	1,5	Bottom	2002-11-12 08:00	4331	0,042	0,04	-0,004	0,10	8,1			0,007
PFM000087	Lake Water	0,5	Surface	2002-11-12 08:00	4327	0,024	0,00	-0,004	0,10	8,6			0,007
PFM000087	Lake Water	1,5	Bottom	2002-12-16 08:00	4409			-0,004	0,11	7,8			
PFM000087	Lake Water	0,5	Surface	2002-12-16 08:00	4407			-0,004	0,09	7,6			
PFM000087	Lake Water	0,5	Surface	2003-01-15 07:30	4442	0,330	0,64	0,003	0,12	7,1			
PFM000087	Lake Water	1,5	Bottom	2003-01-15 07:30	4449	0,410	0,74	0,003	0,12	7,2			
PFM000087	Lake Water	0,5	Surface	2003-02-18 07:30	4485			-0,004	0,11	7,0			
PFM000087	Lake Water	1,5	Bottom	2003-02-18 07:30	4486			0,011	0,13	7,0			
PFM000097	Lake Water	0,5	Surface	2002-04-17 11:30	4056	0,142	0,01	0,006	0,11	7,9	80,0		
PFM000097	Lake Water	0,5	Surface	2002-05-06 10:00	4073			0,003	0,11	7,9	79,5		
PFM000097	Lake Water	0,5	Surface	2002-05-13 12:00	4099			0,003	0,11	8,2	81,5		
PFM000097	Lake Water	0,5	Surface	2002-05-27 10:00	4124			0,004	0,12	8,1	84,2		
PFM000097	Lake Water	0,5	Surface	2002-06-10 10:15	4150			0,004	0,16	8,3	102		0,006
PFM000097	Lake Water	0,5	Surface	2002-06-24 10:30	4181			0,003	0,14	8,3	93,5	-0,03	0,011
PFM000097	Lake Water	0,5	Surface	2002-07-15 00:00	4205	0,099	0,01	0,003	0,11	8,0	69,4		0,006
PFM000097	Lake Water	0,5	Surface	2002-08-12 18:05	4245	0,095	0,01	0,004	0,10	8,7	58,9		0,008
PFM000097	Lake Water	0,5	Surface	2002-09-02 07:30	4260			0,004	0,11				0,006
PFM000097	Lake Water	0,5	Surface	2002-09-16 18:00	4287			0,004	0,11				0,013
PFM000097	Lake Water	0,5	Surface	2002-09-30 07:30	4315			0,005	0,09	9,4			
PFM000097	Lake Water	0,5	Surface	2002-12-17 07:30	4426			-0,004	0,10	7,4			
PFM000097	Lake Water	0,5	Surface	2003-01-15 07:30	4452	0,210	0,05	0,003	0,12	7,4			
PFM000097	Lake Water	0,5	Surface	2003-02-18 07:30	4499			-0,004	0,11	7,1			
PFM000107	Lake Water	0,5	Surface	2002-04-01 09:30	4018			0,001	0,03	7,1	16,0		
PFM000107	Lake Water	1,4	Bottom	2002-04-01 10:00	4019			0,022	0,22	7,2	230		
PFM000107	Lake Water	0,5	Surface	2002-04-17 09:30	4058	0,158	0,02	0,004	0,11	8,0	81,0		
PFM000107	Lake Water	1,4	Bottom	2002-04-17 09:30	4059	0,153	0,01	0,004	0,11	8,0	80,0		
PFM000107	Lake Water	1,5	Bottom	2002-05-06 12:00	4069			0,003	0,10	8,1	72,1		

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301



Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/L	F- mg/L	Si mg/L
PFM000107	Lake Water	0,5	Surface	2002-05-06 12:00	4068	-0,36	76,8	4,31	48,4	10,9	130	148	22,0	8,25	0,48		1,4
PFM000107	Lake Water	1,5	Bottom	2002-05-13 12:00	4097	-1,22	70,4	4,36	48,7	10,6	130	141	21,1	8,34	0,58		0,9
PFM000107	Lake Water	0,5	Surface	2002-05-13 12:00	4096	-1,09	70,6	4,38	48,8	10,6	130	141	21,2	8,33	0,54		0,9
PFM000107	Lake Water	0,5	Surface	2002-05-27 08:30	4121	-3,38	75,4	4,42	46,3	11,1	130	158	23,6	7,88	0,53		0,4
PFM000107	Lake Water	1,5	Bottom	2002-05-27 08:30	4122	-2,49	75,4	4,43	46,3	11,1	130	153	23,6	7,88	0,55		0,4
PFM000107	Lake Water	1	Bottom	2002-06-10 09:00	4152	-0,61	88,7	5,06	48,8	12,3	140	164	23,8	9,28	0,48	0,31	0,6
PFM000107	Lake Water	0,5	Surface	2002-06-10 09:00	4151	0,02	88,3	5,04	48,6	12,2	130	165	23,6	9,28	0,53	0,29	0,6
PFM000107	Lake Water	0,5	Surface	2002-06-24 09:00	4178	-2,43	79,0	4,73	45,2	11,9	130	158	22,9	8,47	0,40	0,24	0,7
PFM000107	Lake Water	1	Bottom	2002-06-24 09:00	4179	-2,33	79,5	4,76	45,6	11,9	130	159	23,1	8,51	0,40	0,23	0,7
PFM000107	Lake Water	1	Bottom	2002-07-15 00:00	4207	0,87	64,9	3,89	42,8	9,4	120	116	19,4	7,50	0,40	0,28	0,9
PFM000107	Lake Water	0,5	Surface	2002-07-15 00:00	4206	0,88	65,0	4,02	42,9	9,5	120	117	19,4	7,61	0,44	0,33	1,0
PFM000107	Lake Water	0,5	Surface	2002-08-12 00:00	4233	-0,56	48,8	3,29	42,0	8,2	130	88,9	17,5	6,14	0,36	0,20	1,9
PFM000107	Lake Water	1	Bottom	2002-08-12 00:00	4234	0,32	47,7	3,35	42,2	7,8	130	83,2	16,9	6,12	0,25	0,32	1,9
PFM000107	Lake Water	0,5	Surface	2002-09-02 07:30	4261	2,74	56,8	3,64	44,5	8,9	136	90,1	20,3	6,91	0,41	0,29	1,9
PFM000107	Lake Water	1	Bottom	2002-09-02 07:30	4262	2,93	56,8	3,70	44,5	8,8	136	89,1	18,7	6,88	0,39	0,41	1,9
PFM000107	Lake Water	1	Bottom	2002-09-16 18:00	4289	-0,32	55,3	3,70	43,0	9,3	139	96,1	18,8	6,95	0,40	0,36	1,6
PFM000107	Lake Water	0,5	Surface	2002-09-16 18:00	4288	0,19	55,5	3,67	43,0	9,3	139	94,5	19,1	6,95	0,39	0,40	1,6
PFM000107	Lake Water	1	Bottom	2002-09-30 07:30	4303	-1,21	53,3	3,61	40,5	9,0	127	99,1	18,5	6,56	0,45	0,26	0,9
PFM000107	Lake Water	0,5	Surface	2002-09-30 07:30	4302	-1,17	52,9	3,46	40,0	9,0	127	97,0	18,4	6,57	0,42	0,27	0,9
PFM000107	Lake Water	0,5	Surface	2002-11-12 08:00	4328	0,12	57,1	4,07	44,4	9,3	144	98,1	17,6	6,62	0,36	0,26	0,2
PFM000107	Lake Water	1	Bottom	2002-12-17 07:30	4421	-3,78	51,4	4,04	51,5	9,0	168	103	15,9	6,43	0,31	0,41	1,0
PFM000107	Lake Water	0,5	Surface	2002-12-17 07:30	4420	-1,92	16,6	2,84	57,1	4,9	152	40,1	27,5	9,19	0,08	0,26	4,7
PFM000107	Lake Water	0,5	Surface	2003-01-16 07:30	4444	-7,47	40,0	4,41	41,0	6,5	157	78,8	18,1	5,34	0,32	0,38	1,4
PFM000107	Lake Water	1	Bottom	2003-01-16 07:30	4447	-3,25	43,6	3,84	52,0	8,1	171	84,2	20,0	6,75	0,19	0,26	2,0
PFM000107	Lake Water	1	Bottom	2003-02-17 07:30	4488	1,23	42,1	4,20	67,0	8,3	203	70,5	20,1	7,68	0,23	0,43	3,5
PFM000107	Lake Water	0,5	Surface	2003-02-17 07:30	4487	4,21	19,8	3,09	67,7	5,6	197	24,7	19,8	7,34	-0,20	0,20	5,3
PFM000117	Lake Water	0,5	Surface	2002-04-01 11:00	4020	0,00	1,4	0,73	13,4	0,7	46	0,9	3,0	0,43			0,7
PFM000117	Lake Water	1,5	Bottom	2002-04-01 11:45	4021	-1,51	5,6	2,22	51,8	3,0	180	4,7	5,2	2,35	-0,20		3,7
PFM000117	Lake Water	0,5	Surface	2002-04-16 09:15	4048	3,98	5,4	1,90	53,3	2,6	160	5,1	4,4	1,88	-0,06	0,58	3,4
PFM000117	Lake Water	1,5	Bottom	2002-04-16 09:15	4049	5,15	5,6	1,90	53,3	2,5	160	3,9	4,2	1,82	-0,20	0,14	3,4
PFM000117	Lake Water	1,5	Bottom	2002-05-05 14:40	4082	6,19	6,5	2,23	51,5	2,6	150	5,8	4,6	2,21			2,1

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000107	Lake Water	0,5	Surface	2002-05-06 12:00	4068			0,003	0,10	8,1	72,0		
PFM000107	Lake Water	1,5	Bottom	2002-05-13 12:00	4097			0,003	0,10	8,4	70,4		
PFM000107	Lake Water	0,5	Surface	2002-05-13 12:00	4096			0,003	0,10	8,4	70,3		
PFM000107	Lake Water	0,5	Surface	2002-05-27 08:30	4121			0,004	0,11	8,4	72,7		
PFM000107	Lake Water	1,5	Bottom	2002-05-27 08:30	4122			0,003	0,11	8,4	72,7		
PFM000107	Lake Water	1	Bottom	2002-06-10 09:00	4152			0,004	0,12	8,6	76,4		0,005
PFM000107	Lake Water	0,5	Surface	2002-06-10 09:00	4151			0,004	0,12	8,7	76,5		0,006
PFM000107	Lake Water	0,5	Surface	2002-06-24 09:00	4178			0,003	0,11	8,5	73,2	-0,03	0,016
PFM000107	Lake Water	1	Bottom	2002-06-24 09:00	4179			0,003	0,11	8,5	73,2	-0,03	0,011
PFM000107	Lake Water	1	Bottom	2002-07-15 00:00	4207	0,070		0,01	0,03	0,10	62,5		0,007
PFM000107	Lake Water	0,5	Surface	2002-07-15 00:00	4206	0,075		0,01	0,03	0,10	62,2		0,007
PFM000107	Lake Water	0,5	Surface	2002-08-12 00:00	4233	0,107		0,01	0,03	0,10	53,1		0,008
PFM000107	Lake Water	1	Bottom	2002-08-12 00:00	4234	0,111		0,01	0,03	0,10	53,0		0,009
PFM000107	Lake Water	0,5	Surface	2002-09-02 07:30	4261			0,004	0,11				0,009
PFM000107	Lake Water	1	Bottom	2002-09-02 07:30	4262			0,004	0,11				0,008
PFM000107	Lake Water	1	Bottom	2002-09-16 18:00	4289			0,004	0,10				0,010
PFM000107	Lake Water	0,5	Surface	2002-09-16 18:00	4288			0,004	0,10				0,010
PFM000107	Lake Water	1	Bottom	2002-09-30 07:30	4303			0,004	0,10	8,8			0,009
PFM000107	Lake Water	0,5	Surface	2002-09-30 07:30	4302			0,004	0,10	8,8			0,014
PFM000107	Lake Water	0,5	Surface	2002-11-12 08:00	4328	0,025	0,001	-0,004	0,11	8,3			0,009
PFM000107	Lake Water	1	Bottom	2002-12-17 07:30	4421			-0,004	0,11	7,5			
PFM000107	Lake Water	0,5	Surface	2002-12-17 07:30	4420			-0,004	0,08	7,2			
PFM000107	Lake Water	0,5	Surface	2003-01-16 07:30	4444	0,128	0,04	0,002	0,08	7,4			
PFM000107	Lake Water	1	Bottom	2003-01-16 07:30	4447	0,210	0,05	0,003	0,10	7,4			
PFM000107	Lake Water	1	Bottom	2003-02-17 07:30	4488			-0,004	0,12	7,2			
PFM000107	Lake Water	0,5	Surface	2003-02-17 07:30	4487			-0,004	0,10	6,9			
PFM000117	Lake Water	0,5	Surface	2002-04-01 11:00	4020				0,01	7,0	9,0		
PFM000117	Lake Water	1,5	Bottom	2002-04-01 11:45	4021			0,001	0,06	7,5	32,0		
PFM000117	Lake Water	0,5	Surface	2002-04-16 09:15	4048	0,074	0,05	0,001	0,05	8,1	28,0		
PFM000117	Lake Water	1,5	Bottom	2002-04-16 09:15	4049	0,072	0,05	0,001	0,05	8,1	28,0		
PFM000117	Lake Water	1,5	Bottom	2002-05-05 14:40	4082			0,001	0,05	8,3	27,4		

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/l	Br mg/l	F- mg/L	Si mg/L
PFM000117	Lake Water	0,5	Surface	2002-05-05 14:40	4079	6,51	5,2	1,77	51,9	2,6	150	4,0	4,2	2,08			2,1
PFM000117	Lake Water	0,5	Surface	2002-05-13 14:40	4102	4,43	5,3	1,96	49,5	2,6	150	4,5	4,4	2,07	-0,20		1,7
PFM000117	Lake Water	1,5	Bottom	2002-05-13 14:40	4103	5,00	5,2	1,95	49,9	2,6	150	4,0	4,3	2,06	-0,20		1,7
PFM000117	Lake Water	0,5	Surface	2002-05-28 08:50	4129	3,28	5,5	1,84	46,1	2,8	140	7,9	4,7	1,88	-0,20		1,2
PFM000117	Lake Water	1,5	Bottom	2002-05-28 08:50	4138	5,05	5,4	1,81	46,0	2,7	140	4,3	4,5	1,90	-0,20		1,2
PFM000117	Lake Water	1,5	Bottom	2002-06-11 09:00	4154	2,65	6,5	1,99	44,2	2,9	140	6,5	4,9	2,25	0,05	0,35	1,4
PFM000117	Lake Water	0,5	Surface	2002-06-11 09:00	4153	3,45	6,5	2,14	44,0	2,9	140	5,2	4,7	2,18	0,05	0,22	1,4
PFM000117	Lake Water	0,5	Surface	2002-06-25 08:25	4190	4,19	5,8	2,07	40,3	2,8	120	8,3	5,2	2,00	0,06	0,36	1,6
PFM000117	Lake Water	1,5	Bottom	2002-06-25 08:25	4191	4,38	5,8	1,99	40,6	2,8	120	8,6	5,1	2,04	0,03	0,17	1,6
PFM000117	Lake Water	0,5	Surface	2002-07-16 00:00	4217	7,88	5,8	1,86	38,2	2,7	110	4,1	4,5	2,17	0,03	0,37	1,9
PFM000117	Lake Water	1,5	Bottom	2002-07-16 00:00	4218	8,94	5,9	1,91	39,2	2,7	110	4,2	4,5	2,18	0,03	0,36	2,0
PFM000117	Lake Water	0,5	Surface	2002-08-13 08:00	4235	2,32	5,4	1,73	36,6	2,7	120	4,3	4,5	1,86	0,04	0,36	2,6
PFM000117	Lake Water	1,5	Bottom	2002-08-13 08:00	4236	-	5,4	1,77	37,0	2,6		4,2	4,5	1,89	0,04	0,32	2,5
PFM000117	Lake Water	1,5	Bottom	2002-09-03 07:30	4266	3,25	6,8	2,05	41,4	3,0	133	4,9	5,0	2,18	0,14	0,66	3,4
PFM000117	Lake Water	0,5	Surface	2002-09-03 07:30	4265	4,40	6,8	1,98	41,0	2,9	129	4,7	4,7	2,15	0,09	0,56	3,4
PFM000117	Lake Water	0,5	Surface	2002-09-17 18:00	4282	-0,32	6,0	1,92	38,3	2,9	128	8,3	5,1	2,11	0,10	0,27	3,4
PFM000117	Lake Water	1,5	Bottom	2002-09-17 18:00	4283	1,59	6,1	1,89	38,3	2,9	128	4,9	4,8	2,11	0,06	0,35	3,4
PFM000117	Lake Water	1,5	Bottom	2002-10-01 07:30	4299	-1,80	5,5	1,61	33,4	2,6	121	4,1	4,3	2,04	0,05	0,16	3,1
PFM000117	Lake Water	0,5	Surface	2002-10-01 07:30	4298	2,90	5,9	1,91	37,0	2,9	122	4,2	4,5	1,96	0,05	0,26	3,1
PFM000117	Lake Water	1,5	Bottom	2002-12-17 07:30	4413	1,39	6,2	2,08	51,9	3,0	168	4,9	6,3	2,57	-0,20	0,35	3,3
PFM000117	Lake Water	0,5	Surface	2002-12-17 07:30	4412	3,33	6,3	2,04	44,0	3,0	137	5,8	6,6	2,64	-0,20	0,28	2,9
PFM000117	Lake Water	1,5	Bottom	2003-01-15 07:30	4451	-2,64	6,8	2,31	53,5	3,3	185	9,3	6,9	2,67	-0,20	0,27	3,6
PFM000117	Lake Water	0,5	Surface	2003-01-15 07:30	4440	2,60	7,4	2,46	52,3	3,5	170	5,5	5,7	2,59	-0,20	0,27	3,6
PFM000117	Lake Water	1,5	Bottom	2003-02-18 07:30	4492	2,46	7,6	2,44	59,4	3,3	189	5,2	8,0	3,13	0,20	0,18	4,0
PFM000117	Lake Water	0,5	Surface	2003-02-18 07:30	4491	3,20	7,2	2,42	56,0	3,2	167	7,0	11,5	4,38	-0,20	0,26	4,2
PFM000127	Lake Water	0,5	Surface	2002-05-27 17:00	4132	-1,14	18,1	3,13	34,5	5,7	120	30,2	14,6	5,04	0,06		0,1
PFM000127	Lake Water	1	Bottom	2002-05-27 17:00	4133	5,44	18,0	3,11	34,3	5,7	110	21,8	13,2	5,03	-0,20		0,1
PFM000127	Lake Water	0,5	Surface	2002-06-10 20:08	4163	1,48	23,8	3,80	29,6	6,3	110	28,2	16,3	6,71	0,26	0,38	0,9
PFM000127	Lake Water	1	Bottom	2002-06-10 20:08	4164	3,75	23,7	3,78	29,2	6,3	100	28,1	16,4	6,63	0,46	0,50	0,9
PFM000127	Lake Water	1	Bottom	2002-06-24 20:20	4177	5,62	20,4	3,37	29,2	5,8	93	24,9	14,7	5,73	0,09	0,29	1,1
PFM000127	Lake Water	0,5	Surface	2002-06-24 20:20	4162	6,00	20,4	3,37	28,6	5,8	89	25,6	14,5	5,75	0,11	0,23	1,0

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000117	Lake Water	0,5	Surface	2002-05-05 14:40	4079			0,001	0,05	8,3	27,4		
PFM000117	Lake Water	0,5	Surface	2002-05-13 14:40	4102			0,001	0,05	8,3	26,8		
PFM000117	Lake Water	1,5	Bottom	2002-05-13 14:40	4103			0,001	0,05	8,3	26,8		
PFM000117	Lake Water	0,5	Surface	2002-05-28 08:50	4129			0,001	0,05	8,4	26,2		
PFM000117	Lake Water	1,5	Bottom	2002-05-28 08:50	4138			0,001	0,05	8,4	26,2		0,006
PFM000117	Lake Water	1,5	Bottom	2002-06-11 09:00	4154			0,001	0,05	8,4	24,7		0,006
PFM000117	Lake Water	0,5	Surface	2002-06-11 09:00	4153			0,001	0,05	8,4	24,7		0,006
PFM000117	Lake Water	0,5	Surface	2002-06-25 08:25	4190			0,001	0,05	8,4	22,6		0,006
PFM000117	Lake Water	1,5	Bottom	2002-06-25 08:25	4191			0,001	0,05	8,4			0,006
PFM000117	Lake Water	0,5	Surface	2002-07-16 00:00	4217			0,001	0,05	8,4	21,6		0,006
PFM000117	Lake Water	1,5	Bottom	2002-07-16 00:00	4218	0,014		0,001	0,05	8,4	21,7		0,006
PFM000117	Lake Water	0,5	Surface	2002-08-13 08:00	4235	0,021		0,002	0,05	8,4	22,4		0,007
PFM000117	Lake Water	1,5	Bottom	2002-08-13 08:00	4236	0,024		0,001	0,05	8,3	22,5		0,007
PFM000117	Lake Water	1,5	Bottom	2002-09-03 07:30	4266			0,001	0,06				0,008
PFM000117	Lake Water	0,5	Surface	2002-09-03 07:30	4265			0,001	0,06				0,008
PFM000117	Lake Water	0,5	Surface	2002-09-17 18:00	4282			0,001	0,05				0,008
PFM000117	Lake Water	1,5	Bottom	2002-09-17 18:00	4283			0,001	0,05				0,008
PFM000117	Lake Water	1,5	Bottom	2002-10-01 07:30	4299			0,002	0,05	8,6			0,008
PFM000117	Lake Water	0,5	Surface	2002-10-01 07:30	4298			0,002	0,05	8,6			0,009
PFM000117	Lake Water	1,5	Bottom	2002-12-17 07:30	4413			-0,004	0,06	7,9			
PFM000117	Lake Water	0,5	Surface	2002-12-17 07:30	4412			-0,004	0,06	8,1			
PFM000117	Lake Water	1,5	Bottom	2003-01-15 07:30	4451	0,030		0,001	0,06	7,7			
PFM000117	Lake Water	0,5	Surface	2003-01-15 07:30	4440	0,010		0,001	0,07	8,0			
PFM000117	Lake Water	1,5	Bottom	2003-02-18 07:30	4492			-0,004	0,06	7,4			
PFM000117	Lake Water	0,5	Surface	2003-02-18 07:30	4491			-0,004	0,06	7,1			
PFM000127	Lake Water	0,5	Surface	2002-05-27 17:00	4132			0,004	0,07	8,5	30,8		
PFM000127	Lake Water	1	Bottom	2002-05-27 17:00	4133			0,004	0,08	8,5	30,7		
PFM000127	Lake Water	0,5	Surface	2002-06-10 20:08	4163			0,004	0,07	8,5	29,7		0,010
PFM000127	Lake Water	1	Bottom	2002-06-10 20:08	4164			0,004	0,08	8,6	29,8		0,010
PFM000127	Lake Water	1	Bottom	2002-06-24 20:20	4177			0,004	0,07	8,5	28,9		0,011
PFM000127	Lake Water	0,5	Surface	2002-06-24 20:20	4162			0,003	0,07	8,6	28,6		0,024

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/L	F- mg/L	Si mg/L
PFM000127	Lake Water	1	Bottom	2002-07-15 00:00	4216	2,96	21,4	3,29	30,2	5,8	97	29,9	14,9	5,98	0,15	0,37	1,2
PFM000127	Lake Water	0,5	Surface	2002-07-15 00:00	4215	3,95	21,5	3,38	29,6	5,6	97	26,6	14,5	5,96	0,18	0,38	1,2
PFM000127	Lake Water	0,5	Surface	2002-08-12 19:40	4232	-7,16	21,0	3,21	30,3	5,9	110	45,8	16,2	5,41	0,20	0,42	2,3
PFM000127	Lake Water	1	Bottom	2002-08-12 19:40	4241	0,63	21,0	3,00	30,6	5,7	110	27,8	14,1	5,42	0,18	0,35	2,2
PFM000127	Lake Water	0,5	Surface	2002-09-01 17:00	4247	2,81	27,7	3,68	36,1	6,7	128	33,3	15,5	6,12	0,20	0,63	2,9
PFM000127	Lake Water	1,1	Bottom	2002-09-01 17:00	4248	3,13	28,2	3,75	36,3	6,9	133	31,8	15,4	6,18	0,20	0,22	2,9
PFM000127	Lake Water	0,5	Surface	2002-09-16 18:00	4290	-0,68	28,0	3,73	34,7	7,2	138	36,3	15,1	6,03	0,22	0,41	2,2
PFM000127	Lake Water	1	Bottom	2002-09-16 18:00	4291	1,29	28,1	3,76	35,0	7,2	134	36,4	15,2	5,18	0,20	0,37	2,2
PFM000127	Lake Water	0,5	Surface	2002-09-30 07:30	4296	-3,67	25,3	3,17	30,7	6,4	127	36,4	14,0	5,64	0,23	0,57	1,1
PFM000127	Lake Water	1	Bottom	2002-09-30 07:30	4297	2,65	28,0	3,70	34,6	7,2	126	36,4	13,9	5,28	0,24	0,35	1,1
PFM000135	Lake Water	0,5	Surface	2002-03-19 15:30	4006	2,61	7,0	3,02	52,2	3,8	160	7,5	12,1	4,75	-0,20		5,8
PFM000135	Lake Water	0,5	Surface	2002-12-17 07:30	4414	1,06	27,0	4,47	58,0	7,3	193	36,5	20,9	7,73	-0,20	0,25	1,4
PFM000135	Lake Water	0,5	Surface	2003-01-15 07:30	4443	-4,01	33,7	5,43	72,2	9,0	281	49,3	22,8	7,04	0,08	0,29	1,9
AFM000010	Lake Water		Merged	2002-03-18 12:45	4008	4,10	6,2	2,21	58,9	3,1	180	4,9	5,1	2,44	-0,20		4,8
AFM000050	Lake Water		Merged	2002-03-19 09:40	4002	-5,45	11,4	5,98	49,5	15,8	140	24,4	34,4	11,5	0,77		4,1
AFM000073	Lake Water		Merged	2002-03-19 19:30	4004	1,50	7,0	2,73	68,7	4,3	220	7,6	8,9	3,52	-0,20		5,3
AFM000074	Lake Water		Merged	2002-03-19 12:18	4001	-3,48	11,9	6,07	49,0	17,0	130	24,6	36,1	12,2	0,80		4,4
AFM000151	Lake Water		Merged	2002-03-20 10:00	4003	3,43	4,6	1,99	55,3	2,8	170	4,5	4,0	1,73	-0,20		4,3
PFM000151	Lake Water	0,5	Surface	2002-04-02 12:40	4033	-3,20	3,9	1,34	28,7	1,5	100	6,1	2,4	1,08	-0,20		2,2
PFM000151	Lake Water	0,5	Surface	2002-04-16 16:31	4052	-	4,8	2,20	59,1	2,8		4,1	4,1	1,72	-0,20	0,14	3,9
PFM000151	Lake Water	0,5	Surface	2002-05-12 19:00	4090	5,63	6,4	2,53	68,0	3,3	200	6,3	4,2	2,05	-0,08		3,5
PFM000151	Lake Water	0,5	Surface	2002-05-26 12:00	4111	5,27	8,3	2,31	65,9	3,8	200	8,1	3,8	1,81	-0,20		3,7
PFM000062	Sea Water	0,5	Surface	2002-05-07 08:51	4076	-5,62	14,60	54,7	76,0	182	75	2980,9	365	132	8,88		0,2
PFM000062	Sea Water	3	Bottom	2002-05-07 08:51	4081	-4,43	14,50	54,5	75,9	181	75	2883,3	352	131	10,6		0,2
PFM000062	Sea Water	3,5	Bottom	2002-05-14 07:30	4109	-3,05	14,40	54,6	75,4	181	74	2785,5	365	128	10,5		0,2
PFM000062	Sea Water	0,5	Surface	2002-05-14 07:30	4110	-2,40	14,40	54,6	76,0	182	74	2747,8	362	129	10,1		0,2
PFM000062	Sea Water	0,5	Surface	2002-05-27 13:49	4120	1,88	15,90	51,8	70,4	182	72	2736,1	366	116	8,66		0,1
PFM000062	Sea Water	3	Bottom	2002-05-27 13:49	4127	1,98	15,90	52,2	69,9	182	69	2729,7	370	116	12,1		0,1
PFM000062	Sea Water	3	Bottom	2002-06-10 13:00	4146	0,04	14,90	53,5	72,2	187	76	2694,1	380	124	9,00	0,32	0,2
PFM000062	Sea Water	0,5	Surface	2002-06-10 13:00	4145	0,14	14,90	53,7	73,0	189	75	2692,1	381	126	9,00	0,21	0,2

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000127	Lake Water	1	Bottom	2002-07-15 00:00	4216	0,037	0,01	0,004	0,07	8,6	29,0		0,009
PFM000127	Lake Water	0,5	Surface	2002-07-15 00:00	4215	0,060	0,01	0,004	0,07				0,010
PFM000127	Lake Water	0,5	Surface	2002-08-12 19:40	4232	0,062	0,01	0,004	0,08	8,3	30,6		0,011
PFM000127	Lake Water	1	Bottom	2002-08-12 19:40	4241	0,066	0,01	0,005	0,08	8,8	30,6		0,011
PFM000127	Lake Water	0,5	Surface	2002-09-01 17:00	4247			0,005	0,07				0,013
PFM000127	Lake Water	1,1	Bottom	2002-09-01 17:00	4248			0,006	0,10				0,013
PFM000127	Lake Water	0,5	Surface	2002-09-16 18:00	4290			0,005	0,10				0,015
PFM000127	Lake Water	1	Bottom	2002-09-16 18:00	4291			0,005	0,10				0,012
PFM000127	Lake Water	0,5	Surface	2002-09-30 07:30	4296			0,006	0,08	8,6			0,021
PFM000127	Lake Water	1	Bottom	2002-09-30 07:30	4297			0,006	0,09	8,6			0,017
PFM000135	Lake Water	0,5	Surface	2002-03-19 15:30	4006			0,007	0,07	7,0	31,0		
PFM000135	Lake Water	0,5	Surface	2002-12-17 07:30	4414			0,004	0,11	7,5			
PFM000135	Lake Water	0,5	Surface	2003-01-15 07:30	4443	0,290	0,13	0,006	0,14	7,5			
AFM000010	Lake Water		Merged	2002-03-18 12:45	4008			0,06	0,06	8,0	33,0		
AFM000050	Lake Water		Merged	2002-03-19 09:40	4002			0,13	0,13	7,8	100		
AFM000073	Lake Water		Merged	2002-03-19 19:30	4004			0,08	0,08	7,4	39,0		
AFM000074	Lake Water		Merged	2002-03-19 12:18	4001			0,004	0,14	7,7	100		
AFM000151	Lake Water		Merged	2002-03-20 10:00	4003			0,06	0,06	7,5	30,0		
PFM000151	Lake Water	0,5	Surface	2002-04-02 12:40	4033			0,03	0,03	7,4	19,0		
PFM000151	Lake Water	0,5	Surface	2002-04-16 16:31	4052	0,068	0,01	0,002	0,06				
PFM000151	Lake Water	0,5	Surface	2002-05-12 19:00	4090			0,002	0,07	7,9	36,1		
PFM000151	Lake Water	0,5	Surface	2002-05-26 12:00	4111			0,002	0,08	7,7	38,0		
PFM000062	Sea Water	0,5	Surface	2002-05-07 08:51	4076			0,027	1,03	8,0	883		
PFM000062	Sea Water	3	Bottom	2002-05-07 08:51	4081			0,027	1,03	8,1	881		
PFM000062	Sea Water	3,5	Bottom	2002-05-14 07:30	4109			0,027	1,03	8,0	889		
PFM000062	Sea Water	0,5	Surface	2002-05-14 07:30	4110			0,027	1,03	8,0	890		
PFM000062	Sea Water	0,5	Surface	2002-05-27 13:49	4120			0,030	1,15	8,0	887		
PFM000062	Sea Water	3	Bottom	2002-05-27 13:49	4127			0,031	1,03	8,0	888		
PFM000062	Sea Water	3	Bottom	2002-06-10 13:00	4146			0,026	1,09	7,9	880		0,006
PFM000062	Sea Water	0,5	Surface	2002-06-10 13:00	4145			0,026	1,09	8,0	882		0,006

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000062	Sea Water	3	Bottom	2002-06-24 13:50	4185	-1,21	1400	51,8	67,6	179	70	2609,7	357	119	8,90	0,21	0,3
PFM000062	Sea Water	0,5	Surface	2002-06-24 13:50	4184	-0,96	1400	52,3	68,3	180	70	2601,9	365	118	8,80	0,27	0,3
PFM000062	Sea Water	0,5	Surface	2002-07-15 13:15	4198	0,39	1455	56,0	71,7	184	71	2615,6	363	124	8,50	0,31	0,2
PFM000062	Sea Water	3	Bottom	2002-07-15 13:15	4199	-	1430	53,0	75,8	189	70	2635,7	368	125	8,20	0,43	0,1
PFM000062	Sea Water	3	Bottom	2002-08-12 09:04	4230	0,88	1410	50,1	66,6	164	70	2476,4	349	111	7,80	0,16	0,6
PFM000062	Sea Water	0,5	Surface	2002-08-12 09:04	4229	1,67	1430	51,6	66,6	165	70	2464,7	344	112	8,70	0,48	0,7
PFM000062	Sea Water	3	Bottom	2002-09-02 07:30	4254	4,77	1500	52,2	68,4	172	83	2395,5	366	119	9,20	0,32	0,4
PFM000062	Sea Water	0,5	Surface	2002-09-02 07:30	4253	5,54	1480	51,9	68,2	171	63	2334,6	367	119	9,60	0,58	0,4
PFM000062	Sea Water	3	Bottom	2002-09-16 18:00	4281	1,71	1490	52,5	67,9	184	80	2601,6	362	113	7,30	0,26	0,5
PFM000062	Sea Water	0,5	Surface	2002-09-16 18:00	4280	-	1500	52,7	68,2	185	72	2610,1	362	115	7,70	0,47	0,5
PFM000062	Sea Water	0,5	Surface	2002-09-30 07:30	4306	-0,75	1440	50,0	67,7	182	72	2631,8	362	128	9,30	0,5	0,5
PFM000062	Sea Water	3	Bottom	2002-09-30 07:30	4307	2,17	1520	53,4	71,0	191	72	2620,1	325	126	9,20	0,5	0,5
PFM000062	Sea Water	0,5	Surface	2002-10-21 13:00	4333	0,36	1490	51,3	68,7	181	83	2656,8	369	119	9,73	-0,20	0,4
PFM000062	Sea Water	3	Bottom	2002-10-21 13:00	4322	0,83	1490	51,0	68,3	180	74	2627,6	364	120	9,50	0,52	0,4
PFM000062	Sea Water	3	Bottom	2002-11-11 08:00	4360	0,10	1480	53,7	69,1	185	75	2683,1	385	116	9,10	0,5	0,5
PFM000062	Sea Water	0,5	Surface	2002-11-11 08:00	4359	0,86	1500	53,4	69,4	186	74	2667,8	391	118	9,20	0,5	0,5
PFM000062	Sea Water	3	Bottom	2002-11-25 08:00	4383	-3,72	1340	49,1	63,5	164	74	2609,7	361	115	8,64	-0,20	0,5
PFM000062	Sea Water	0,5	Surface	2002-11-25 08:00	4382	-3,40	1340	49,0	63,6	164	74	2590,6	365	115	9,10	0,19	0,5
PFM000062	Sea Water	0,5	Surface	2002-12-16 08:00	4418	-0,09	1470	54,3	70,7	182	73	2668,9	485	118	12,3	-0,20	0,6
PFM000062	Sea Water	3	Bottom	2002-12-16 08:00	4419	0,73	1470	54,4	70,7	182	72	2620,3	371	119	9,34	0,12	0,7
PFM000063	Sea Water	0,5	Surface	2002-05-07 12:00	4083	-4,65	1400	52,8	74,5	175	77	2800,1	342	126	8,69	0,2	0,2
PFM000063	Sea Water	4,5	Bottom	2002-05-07 12:00	4084	-4,58	1420	53,2	75,0	177	75	2833,7	347	128	9,54	0,3	0,3
PFM000063	Sea Water	0,5	Surface	2002-05-14 08:00	4105	-2,46	1390	52,9	74,0	175	74	2654	346	124	10,4	0,1	0,1
PFM000063	Sea Water	4,5	Bottom	2002-05-14 08:00	4106	-2,14	1420	54,0	74,5	179	74	2691,1	358	127	9,98	0,2	0,2
PFM000063	Sea Water	4,5	Bottom	2002-05-27 14:30	4131	1,90	1590	52,3	70,0	181	72	2731,5	382	116	9,24	0,2	0,2
PFM000063	Sea Water	0,5	Surface	2002-05-27 14:30	4130	2,04	1600	52,6	70,5	183	74	2740,9	377	117	9,44	0,1	0,1
PFM000063	Sea Water	0,5	Bottom	2002-06-10 14:15	4155	-0,10	1520	54,8	74,7	193	80	2760,4	402	128	9,00	0,67	0,3
PFM000063	Sea Water	4,5	Surface	2002-06-10 14:15	4156	-0,09	1510	54,5	73,7	191	80	2742,5	394	126	7,70	0,34	0,4
PFM000063	Sea Water	0,5	Surface	2002-06-24 14:42	4182	0,13	1420	53,0	73,1	187	72	2587,2	359	123	8,80	0,32	0,3
PFM000063	Sea Water	4,5	Bottom	2002-06-24 14:42	4183	-	1410	52,4	66,9	180	72	2521,6	367	118	7,50	0,32	0,3
PFM000063	Sea Water	0,5	Surface	2002-07-15 14:20	4194	0,13	1450	55,1	72,2	184	72	2627,4	366	122	8,80	0,22	0,4

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000062	Sea Water	3	Bottom	2002-06-24 13:50	4185			0,022	1,00	7,9	858		0,014
PFM000062	Sea Water	0,5	Surface	2002-06-24 13:50	4184			0,023	1,01	7,9	858		0,080
PFM000062	Sea Water	0,5	Surface	2002-07-15 13:15	4198	-0,004	0,01	0,024	1,03	8,1	857		
PFM000062	Sea Water	3	Bottom	2002-07-15 13:15	4199	0,008	0,004	0,013	1,03	8,0	856	0,02	
PFM000062	Sea Water	3	Bottom	2002-08-12 09:04	4230	0,013	0,01	0,029	0,98	8,0	807		0,007
PFM000062	Sea Water	0,5	Surface	2002-08-12 09:04	4229	0,017	0,01	0,032	0,99	7,9	807		0,022
PFM000062	Sea Water	3	Bottom	2002-09-02 07:30	4254			0,003	1,04				0,009
PFM000062	Sea Water	0,5	Surface	2002-09-02 07:30	4253			0,031	1,03				0,008
PFM000062	Sea Water	3	Bottom	2002-09-16 18:00	4281			0,022	1,01				0,010
PFM000062	Sea Water	0,5	Surface	2002-09-16 18:00	4280			0,022	1,02				0,009
PFM000062	Sea Water	0,5	Surface	2002-09-30 07:30	4306			0,035	1,00	8,1			0,007
PFM000062	Sea Water	3	Bottom	2002-09-30 07:30	4307			0,035	1,06	8,1			0,008
PFM000062	Sea Water	0,5	Surface	2002-10-21 13:00	4333	-0,002	-0,003	0,027	1,02	8,0			
PFM000062	Sea Water	3	Bottom	2002-10-21 13:00	4322	-0,002	-0,003	0,030	1,02	8,1			
PFM000062	Sea Water	3	Bottom	2002-11-11 08:00	4360			0,023	1,04	8,0			0,010
PFM000062	Sea Water	0,5	Surface	2002-11-11 08:00	4359			0,023	1,05	8,0			0,009
PFM000062	Sea Water	3	Bottom	2002-11-25 08:00	4383			-0,004	0,98	8,0			
PFM000062	Sea Water	0,5	Surface	2002-11-25 08:00	4382			0,007	0,98	8,0			
PFM000062	Sea Water	0,5	Surface	2002-12-16 08:00	4418			0,021	1,04	8,1			
PFM000062	Sea Water	3	Bottom	2002-12-16 08:00	4419			0,022	1,04	8,2			
PFM000063	Sea Water	0,5	Surface	2002-05-07 12:00	4083			0,026	1,00	8,0	855		
PFM000063	Sea Water	4,5	Bottom	2002-05-07 12:00	4084			0,027	1,01	8,0	866		
PFM000063	Sea Water	0,5	Surface	2002-05-14 08:00	4105			0,026	1,00	8,0	869		
PFM000063	Sea Water	4,5	Bottom	2002-05-14 08:00	4106			0,027	1,02	8,0	884		
PFM000063	Sea Water	4,5	Bottom	2002-05-27 14:30	4131			0,031	1,03	7,9	892		
PFM000063	Sea Water	0,5	Surface	2002-05-27 14:30	4130			0,024	1,04	8,0	893		
PFM000063	Sea Water	0,5	Bottom	2002-06-10 14:15	4155			0,028	1,11	8,0	902		0,008
PFM000063	Sea Water	4,5	Surface	2002-06-10 14:15	4156			0,027	1,09	7,9	898		0,008
PFM000063	Sea Water	0,5	Surface	2002-06-24 14:42	4182			0,024	1,03	7,8	860		0,015
PFM000063	Sea Water	4,5	Bottom	2002-06-24 14:42	4183			0,020	1,01	7,8	868		0,018
PFM000063	Sea Water	0,5	Surface	2002-07-15 14:20	4194	0,028	0,01	0,025	1,02	8,0	853		

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000063	Sea Water	4,5	Bottom	2002-07-15 14:20	4195	0,71	1460	56,0	72,8	186	72	2612,9	370	124	8,40	0,22	0,4
PFM000063	Sea Water	0,5	Surface	2002-08-12 10:30	4227	1,07	1473	52,7	68,5	170	74	2573,1	364	115	8,90	0,27	0,7
PFM000063	Sea Water	4,5	Bottom	2002-08-12 10:30	4228	1,92	1513	54,0	70,2	174	77	2591,5	368	118	9,00	0,48	1,7
PFM000063	Sea Water	4,5	Bottom	2002-09-02 07:30	4258	4,68	1500	52,2	68,7	172	76	2407,9	373	118	9,40	0,11	0,6
PFM000063	Sea Water	0,5	Surface	2002-09-02 07:30	4257	5,11	1500	51,8	68,7	171	81	2375,8	369	119	8,90	0,59	0,6
PFM000063	Sea Water	0,5	Surface	2002-09-16 18:00	4274	0,98	1510	53,9	70,9	174	80	2614,2	371	130	7,70	0,26	0,6
PFM000063	Sea Water	4,5	Bottom	2002-09-16 18:00	4275	1,57	1520	52,9	69,0	187	80	2628,2	372	130	7,70	0,21	0,5
PFM000063	Sea Water	0,5	Surface	2002-09-30 07:30	4304	-0,93	1440	50,4	67,9	183	73	2647,5	344	127	9,10	0,28	0,4
PFM000063	Sea Water	4,5	Bottom	2002-09-30 07:30	4305	0,36	1460	51,1	68,6	185	73	2608,4	349	128	9,10		0,4
PFM000063	Sea Water	4,5	Bottom	2002-10-21 13:00	4321	-4,14	1460	50,4	67,7	178	71	2636	366	119	9,50		0,4
PFM000063	Sea Water	0,5	Surface	2002-10-21 13:00	4324	1,49	1500	51,2	68,9	181	70	2610,2	360	120	9,80	0,35	0,4
PFM000063	Sea Water	0,5	Surface	2002-11-11 08:00	4358	0,06	1470	53,7	69,0	183	75	2663,9	383	116	8,90	0,20	0,4
PFM000063	Sea Water	4,5	Bottom	2002-11-11 08:00	4357	0,35	1460	53,2	68,5	182	75	2626,4	385	116	9,30	0,46	0,4
PFM000063	Sea Water	0,5	Surface	2002-11-25 08:00	4380	-4,22	1330	48,3	63,2	162	74	2614,7	363	115	8,69	-0,20	0,4
PFM000063	Sea Water	4,5	Bottom	2002-11-25 08:00	4381	-4,16	1330	48,5	63,3	163	74	2613,6	363	115	9,81	0,24	0,5
PFM000063	Sea Water	4,3	Bottom	2002-12-16 08:00	4411	-0,56	1460	53,5	72,2	182	80	2680,2	380	118	10,3	-0,20	0,6
PFM000063	Sea Water	0,5	Surface	2002-12-16 08:00	4410	-0,28	1470	52,5	71,2	182	78	2675,6	387	119	9,67	-0,20	0,6
PFM000063	Sea Water	1	Bottom	2003-01-14 07:30	4450	-1,82	1450	55,2	72,2	179	82	2723,5	381	122	9,10	0,13	0,9
PFM000063	Sea Water	0,5	Surface	2003-01-14 07:30	4445	-1,23	1410	53,0	71,3	173	79	2613,2	375	118	9,01	0,32	0,9
PFM000063	Sea Water	4,5	Bottom	2003-02-17 07:30	4494	-5,13	1310	49,3	70,1	158	86	2632	359	113	8,63	0,55	1,3
PFM000063	Sea Water	0,5	Surface	2003-02-17 07:30	4493	0,88	848	32,4	64,5	100	101	1474,8	219	77,2	4,77		2,9
PFM000064	Sea Water	1,5	Bottom	2002-05-07 12:00	4087	-4,68	1200	45,4	72,7	151	83	2405,1	297	111	8,50		0,5
PFM000064	Sea Water	0,5	Surface	2002-05-07 12:00	4085	-2,30	668	26,3	59,6	84	98	1268,8	164	64,4	4,58		1,4
PFM000064	Sea Water	1,5	Bottom	2002-05-14 11:15	4108	-3,98	1250	47,6	71,8	157	79	2470,9	326	112	8,08		0,4
PFM000064	Sea Water	0,5	Surface	2002-05-14 11:15	4107	-2,27	1110	42,8	70,1	140	86	2112,6	279	101	7,32		0,5
PFM000064	Sea Water	1,5	Bottom	2002-05-27 16:00	4126	1,36	1500	49,5	70,5	171	78	2606,9	357	111	9,52		0,2
PFM000064	Sea Water	0,5	Surface	2002-05-27 16:00	4125	2,00	1510	49,7	72,0	172	82	2584,8	359	112	11,4		0,2
PFM000064	Sea Water	0,5	Surface	2002-06-10 15:20	4157	0,51	1510	54,0	75,5	188	77	2703,7	357	125	8,60	0,21	0,3
PFM000064	Sea Water	1	Bottom	2002-06-10 15:20	4158	0,64	1510	54,0	76,0	189	83	2694	371	126	8,30	0,22	0,3
PFM000064	Sea Water	0,5	Surface	2002-06-24 15:30	4186	-3,00	1390	51,9	69,6	178	76	2703,5	350	116	8,30	0,32	0,3
PFM000064	Sea Water	1	Bottom	2002-06-24 15:30	4187	-2,05	1380	51,7	70,2	179	75	2633	344	117	9,00	0,23	0,3

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000063	Sea Water	4,5	Bottom	2002-07-15 14:20	4195	0,036	0,01	0,024	1,03	7,8	860		
PFM000063	Sea Water	0,5	Surface	2002-08-12 10:30	4227	0,030	0,01	0,029	1,02	8,0	834		0,008
PFM000063	Sea Water	4,5	Bottom	2002-08-12 10:30	4228	0,063	0,05	0,031	1,04	7,5	843		0,008
PFM000063	Sea Water	4,5	Bottom	2002-09-02 07:30	4258			0,031	1,04				0,080
PFM000063	Sea Water	0,5	Surface	2002-09-02 07:30	4257			0,031	1,04				0,090
PFM000063	Sea Water	0,5	Surface	2002-09-16 18:00	4274			0,025	1,01				0,009
PFM000063	Sea Water	4,5	Bottom	2002-09-16 18:00	4275			0,024	1,03				0,010
PFM000063	Sea Water	0,5	Surface	2002-09-30 07:30	4304			0,038	1,00	8,1			0,007
PFM000063	Sea Water	4,5	Bottom	2002-09-30 07:30	4305			0,038	1,02				0,007
PFM000063	Sea Water	4,5	Bottom	2002-10-21 13:00	4321			0,035	1,00	7,9			0,007
PFM000063	Sea Water	0,5	Surface	2002-10-21 13:00	4324			0,028	1,02	8,0			0,009
PFM000063	Sea Water	0,5	Surface	2002-11-11 08:00	4358			0,024	1,03	7,9			0,009
PFM000063	Sea Water	4,5	Bottom	2002-11-11 08:00	4357			0,023	1,03	8,0			0,009
PFM000063	Sea Water	0,5	Surface	2002-11-25 08:00	4380			0,024	0,97	7,9			
PFM000063	Sea Water	4,5	Bottom	2002-11-25 08:00	4381			0,028	0,97	8,1			
PFM000063	Sea Water	4,3	Bottom	2002-12-16 08:00	4411			0,022	1,04	7,9			
PFM000063	Sea Water	0,5	Surface	2002-12-16 08:00	4410			0,020	1,04	7,9			
PFM000063	Sea Water	1	Bottom	2003-01-14 07:30	4450	0,012	0,01	0,030	1,05	7,7			
PFM000063	Sea Water	0,5	Surface	2003-01-14 07:30	4445	0,020	0,01	0,029	1,02	7,8			
PFM000063	Sea Water	4,5	Bottom	2003-02-17 07:30	4494			0,020	0,96	7,4			
PFM000063	Sea Water	0,5	Surface	2003-02-17 07:30	4493			0,016	0,65	7,4			
PFM000064	Sea Water	1,5	Bottom	2002-05-07 12:00	4087			0,024	0,88	8,0	747		
PFM000064	Sea Water	0,5	Surface	2002-05-07 12:00	4085			0,014	0,52	8,1	437		
PFM000064	Sea Water	1,5	Bottom	2002-05-14 11:15	4108			0,024	0,90	7,9	812		
PFM000064	Sea Water	0,5	Surface	2002-05-14 11:15	4107			0,022	0,82	8,0	708		
PFM000064	Sea Water	1,5	Bottom	2002-05-27 16:00	4126			0,030	0,98	7,8	850		
PFM000064	Sea Water	0,5	Surface	2002-05-27 16:00	4125			0,029	1,00	7,8	843		
PFM000064	Sea Water	0,5	Surface	2002-06-10 15:20	4157			0,026	1,10	8,0	888		0,015
PFM000064	Sea Water	1	Bottom	2002-06-10 15:20	4158			0,026	1,05	8,0	887		0,009
PFM000064	Sea Water	0,5	Surface	2002-06-24 15:30	4186			0,025	1,00	7,9	852		0,015
PFM000064	Sea Water	1	Bottom	2002-06-24 15:30	4187			0,023	1,00	7,9	853		0,013

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000064	Sea Water	1	Bottom	2002-07-15 00:00	4197	-0,11	1385	53,4	72,9	176	77	2522,8	348	118	8,77	0,24	0,3
PFM000064	Sea Water	0,5	Surface	2002-07-15 00:00	4196	0,17	1385	53,3	73,4	176	79	2507,5	347	118	8,59		0,3
PFM000064	Sea Water	0,5	Surface	2002-08-12 12:00	4225	-0,87	1203	43,5	66,2	108	90	2098,5	290	96,2	7,30	0,91	0,8
PFM000064	Sea Water	1	Bottom	2002-08-12 12:00	4226	-	1213	44,1	66,1	139		2111	297	96,2	7,50	0,32	0,8
PFM000064	Sea Water	0,5	Surface	2002-09-02 07:30	4255	3,78	1430	49,9	68,6	163	76	2341,2	352	113	8,80	0,43	0,3
PFM000064	Sea Water	1	Bottom	2002-09-02 07:30	4256	5,20	1430	49,9	68,7	163	106	2250	348	113	8,90	0,43	0,3
PFM000064	Sea Water	0,5	Surface	2002-09-16 18:00	4267	1,42	1500	51,6	71,2	186	90	2629,2	370	117	7,90	0,21	0,3
PFM000064	Sea Water	1	Bottom	2002-09-16 18:00	4268	1,52	1500	51,7	71,1	185	90	2624,3	361	115	8,10	0,42	0,3
PFM000064	Sea Water	0,5	Surface	2002-09-30 07:30	4310	0,29	1460	51,0	70,6	184	78	2612,5	346	127	8,90		0,2
PFM000064	Sea Water	1	Bottom	2002-09-30 07:30	4311	0,62	1470	51,4	70,7	185	78	2617,9	343	124	9,00	0,17	0,2
PFM000064	Sea Water	1	Bottom	2002-10-21 13:00	4323	-0,07	1430	49,0	69,9	175	77	2582,4	352	116	9,50	0,22	0,2
PFM000064	Sea Water	0,5	Surface	2002-10-21 13:00	4330	0,80	1410	48,6	69,5	172	80	2494,6	345	114	9,42	0,43	0,4
PFM000064	Sea Water	0,5	Surface	2002-11-11 08:00	4353	0,47	1400	51,2	68,9	175	77	2512,9	354	113	8,80		0,3
PFM000064	Sea Water	1	Bottom	2002-11-11 08:00	4354	0,80	1400	51,0	68,7	174	77	2493,1	363	112	8,60	0,25	0,3
PFM000064	Sea Water	1	Bottom	2002-11-25 08:00	4379	-3,83	1260	45,6	63,4	155	76	2459	353	111	8,07	-0,20	0,3
PFM000064	Sea Water	0,5	Surface	2002-11-25 08:00	4378	-1,28	1190	42,7	59,9	146	70	2191,3	310	105	7,11	0,33	0,3
PFM000064	Sea Water	1	Bottom	2002-12-16 08:00	4417	-2,44	1120	42,3	71,7	142	98	2147	322	97,3	7,19	0,03	2,1
PFM000064	Sea Water	0,5	Surface	2002-12-16 08:00	4416	-0,27	758	31,0	78,5	97	126	1384,1	230	75,9	4,93	0,18	4,1
PFM000065	Sea Water	0,5	Surface	2002-05-27 16:45	4128	1,36	1470	48,7	69,4	168	88	2548,8	346	109	10,3		0,2
PFM000065	Sea Water	0,5	Surface	2002-06-10 16:30	4147	0,12	1460	52,6	74,0	183	87	2633,4	355	122	7,52	0,16	0,2
PFM000065	Sea Water	0,5	Surface	2002-06-24 16:10	4188	-1,40	1370	51,7	69,5	178	73	2576	352	117	8,80	0,23	0,3
PFM000065	Sea Water	0,5	Surface	2002-07-15 00:00	4212	-0,18	1375	53,3	71,8	176	76	2509,5	349	118	8,30	0,37	0,3
PFM000065	Sea Water	0,5	Surface	2002-08-12 12:15	4231	-0,13	1090	40,3	63,8	126	93	1952,9	270	87,8	6,40	0,38	1,1
PFM000065	Sea Water	0,5	Surface	2002-09-02 07:30	4249	4,80	1520	52,3	70,4	174	84	2425,8	360	121	9,40	0,26	0,5
PFM000065	Sea Water	0,5	Surface	2002-09-16 18:00	4269	1,34	1480	51,4	69,2	182	85	2595,2	357	114	7,70	0,31	0,6
PFM000065	Sea Water	0,5	Surface	2002-09-30 07:30	4308	0,71	1410	49,9	68,9	178	77	2507,1	341	120	8,10		0,5
PFM000065	Sea Water	0,5	Surface	2002-10-21 13:00	4325	0,99	1430	49,3	68,6	174	74	2520,9	350	115	9,40	0,22	0,4
PFM000065	Sea Water	0,5	Surface	2002-11-11 08:00	4355	1,10	1450	52,7	69,7	180	76	2564,3	362	116	8,80		0,5
PFM000065	Sea Water	0,5	Surface	2002-11-25 08:00	4376	-2,75	1180	42,3	62,8	144	82	2245,6	321	103	7,36	-0,20	0,8
PFM000065	Sea Water	0,5	Surface	2002-12-16 08:00	4408	-0,41	65,6	4,09	43,3	10	106	120	47,5	13,5	0,63	0,12	3,6
PFM000065	Sea Water	0,5	Surface	2003-01-13 08:00	4446	-0,06	652	25,9	55,8	79	99	1170	244	58,5	5,78	0,12	2,4

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000064	Sea Water	1	Bottom	2002-07-15 00:00	4197	0,060		0,02	0,024	0,99	8,1	824	
PFM000064	Sea Water	0,5	Surface	2002-07-15 00:00	4196	0,450		0,02	0,023	0,99	8,0	817	
PFM000064	Sea Water	0,5	Surface	2002-08-12 12:00	4225	0,071		0,01	0,024	0,86	8,3	706	0,011
PFM000064	Sea Water	1	Bottom	2002-08-12 12:00	4226	0,067		0,01	0,024	0,87			0,012
PFM000064	Sea Water	0,5	Surface	2002-09-02 07:30	4255			0,030	1,00				0,012
PFM000064	Sea Water	1	Bottom	2002-09-02 07:30	4256			0,029	1,00				0,015
PFM000064	Sea Water	0,5	Surface	2002-09-16 18:00	4267			0,024	1,03				0,012
PFM000064	Sea Water	1	Bottom	2002-09-16 18:00	4268			0,021	1,02				0,015
PFM000064	Sea Water	0,5	Surface	2002-09-30 07:30	4310			0,035	1,01	8,3			0,007
PFM000064	Sea Water	1	Bottom	2002-09-30 07:30	4311			0,034	1,03	8,4			0,010
PFM000064	Sea Water	1	Bottom	2002-10-21 13:00	4323	0,010		0,01	0,028	0,98	7,9		0,008
PFM000064	Sea Water	0,5	Surface	2002-10-21 13:00	4330	0,010		0,004	0,028	0,97	7,9		0,008
PFM000064	Sea Water	0,5	Surface	2002-11-11 08:00	4353			0,022	0,99	8,1			0,009
PFM000064	Sea Water	1	Bottom	2002-11-11 08:00	4354			0,023	0,99	8,0			0,100
PFM000064	Sea Water	1	Bottom	2002-11-25 08:00	4379			0,036	0,93	7,6			
PFM000064	Sea Water	0,5	Surface	2002-11-25 08:00	4378			-0,004	0,88	7,7			
PFM000064	Sea Water	1	Bottom	2002-12-16 08:00	4417			0,019	0,83	7,7			
PFM000064	Sea Water	0,5	Surface	2002-12-16 08:00	4416			0,016	0,62	7,7			
PFM000065	Sea Water	0,5	Surface	2002-05-27 16:45	4128			0,029	0,97	8,0	836		
PFM000065	Sea Water	0,5	Surface	2002-06-10 16:30	4147			0,026	1,10	8,0	865		0,010
PFM000065	Sea Water	0,5	Surface	2002-06-24 16:10	4188			0,024	1,00	8,0	849		0,008
PFM000065	Sea Water	0,5	Surface	2002-07-15 00:00	4212	0,100		0,01	0,024	0,98	8,3	820	0,009
PFM000065	Sea Water	0,5	Surface	2002-08-12 12:15	4231	0,056		0,01	0,023	0,79	8,3	648	0,012
PFM000065	Sea Water	0,5	Surface	2002-09-02 07:30	4249			0,031	1,06				0,009
PFM000065	Sea Water	0,5	Surface	2002-09-16 18:00	4269			0,024	1,01				0,012
PFM000065	Sea Water	0,5	Surface	2002-09-30 07:30	4308			0,035	0,99	8,0			0,010
PFM000065	Sea Water	0,5	Surface	2002-10-21 13:00	4325			0,029	0,98	8,0			
PFM000065	Sea Water	0,5	Surface	2002-11-11 08:00	4355			0,024	1,03	7,9			0,009
PFM000065	Sea Water	0,5	Surface	2002-11-25 08:00	4376			-0,004	0,88	8,1			
PFM000065	Sea Water	0,5	Surface	2002-12-16 08:00	4408				0,10	7,8			
PFM000065	Sea Water	0,5	Surface	2003-01-13 08:00	4446	0,160		0,05	0,14	0,51	7,5		

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000065	Sea Water	0,5	Surface	2003-02-17 07:30	4503	0,40	171	8,23	48,4	22	116	296	65,2	24,0	1,36	0,27	4,1
PFM000082	Sea Water	—	—	2002-03-20 13:04	4007	-3,53	1390	50,9	70,1	173	73	2717,2	329	118	8,84		0,6
PFM000082	Sea Water	0,5	Surface	2002-04-02 14:35	4036	-2,46	1390	51,4	71,8	175	75	2662,3	326	118	7,78		0,4
PFM000082	Sea Water	6,5	Bottom	2002-04-02 15:20	4032	-3,66	1390	51,0	71,2	175	76	2725,7	335	121	8,57		0,4
PFM000082	Sea Water	0,5	Surface	2002-04-16 13:30	4044	-4,61	1420	53,1	72,1	173	76	2840,7	342	117	8,23	0,45	0,4
PFM000082	Sea Water	6	Bottom	2002-04-16 13:30	4047	-4,40	1400	52,7	71,7	171	75	2786,8	334	117	8,44	0,45	0,4
PFM000082	Sea Water	0,5	Surface	2003-01-13 08:00	4438	-1,49	1430	54,1	70,3	176	75	2667,1	374	120	8,94	-0,20	0,7
PFM000082	Sea Water	6,5	Bottom	2003-01-13 08:00	4439	-1,32	1450	54,0	70,2	177	80	2685,6	380	121	9,99	-0,20	0,7
PFM000082	Sea Water	0,5	Surface	2003-02-17 07:30	4489	-2,98	968	38,3	69,2	113	101	1848,9	264	86,2	6,28	0,18	2,9
PFM000082	Sea Water	6,5	Bottom	2003-02-17 07:30	4490	-2,31	1460	55,6	71,9	179	78	2765	389	125	9,60	0,20	0,7
PFM000083	Sea Water	—	—	2002-03-18 16:30	4000	-3,99	1040	38,6	63,7	129	82	2056,7	252	89,2	7,07		1,6
PFM000083	Sea Water	0,5	Surface	2002-04-01 18:15	4029	-3,32	1270	50,1	67,4	163	75	2487,2	325	110	8,02		0,6
PFM000083	Sea Water	6,5	Bottom	2002-04-01 19:00	4025	-2,42	1350	49,7	68,3	168	74	2571,3	449	115	11,5		0,4
PFM000083	Sea Water	6	Bottom	2002-04-16 19:37	4054	-3,73	1430	53,8	72,9	175	74	2808,5	337	119	8,31		0,4
PFM000083	Sea Water	0,5	Surface	2002-04-16 19:37	4053	-2,84	1430	53,5	72,8	175	74	2751,9	330	119	10,7		0,6
PFM000084	Sea Water	—	—	2002-03-20 13:49	4005	-2,29	848	31,7	59,7	104	90	1606	200	75,3	5,76		2,3
PFM000084	Sea Water	0,5	Surface	2002-04-02 10:30	4035	0,44	232	10,1	46,5	30,8	100	477	53,2	26,6	1,05		3,8
PFM000084	Sea Water	2,5	Bottom	2002-04-02 11:10	4037	-2,02	1130	42,3	66,6	142	78	2143,2	284	98,2	6,69		1,2
PFM000084	Sea Water	2,5	Bottom	2002-04-17 18:30	4063	-4,71	136	6,89	49,2	18,7	110	289	54,5	18	-0,20		4,3
PFM000084	Sea Water	0,5	Surface	2002-04-17 18:30	4062	5,53	133	6,74	48,5	18,4	110	212	46,4	17,2	1,36		4,2
PFM000153	Sea Water	0,3	Surface	2002-05-07 12:55	4086	-3,41	957	36,6	66,1	120	90	1863,2	231	88,9	7,89		0,9
PFM000153	Sea Water	0,5	Surface	2002-05-14 12:08	4104	-1,38	1080	41,5	68,1	136	85	2009,3	267	99,7	7,68		0,4
PFM000066	Streaming Water	0,2	Surface	2002-03-20 11:05	4015	3,85	3,9	2,08	59,1	2,9	180	3,3	4,3	1,77	-0,20		4,5
PFM000066	Streaming Water	0,2	Surface	2002-04-15 11:40	4045	3,70	3,7	2,15	60,4	2,6	180	3,5	9,0	1,95	-0,20	0,60	4,0
PFM000066	Streaming Water	0,1	Surface	2002-05-05 20:20	4070	6,95	4,4	2,29	66,4	3,0	190	3,3	4,7	1,69	-0,04		3,5
PFM000066	Streaming Water	0,5	Surface	2002-05-12 19:00	4092	7,29	4,6	2,33	67,4	3,0	190	3,7	4,2	2,04	-0,20		3,2
PFM000066	Streaming Water	0,05	Surface	2002-05-26 22:00	4119	3,76	4,8	2,19	64,8	3,3	200	3,8	4,1	1,79	-0,20		3,1
PFM000066	Streaming Water	0,1	Surface	2002-06-23 21:10	4174		4,5	1,91	60,1	2,9		2,8	13,2	5,12	-0,02	0,26	3,5
PFM000066	Streaming Water	0,2	Surface	2002-07-16 00:00	4208	4,89	5,0	1,52	67,3	3,2	200	3,1	4,2	2,08	0,04	0,42	3,9
PFM000066	Streaming Water	0,05	Surface	2002-08-11 22:00	4223	2,41	4,8	1,45	66,6	3,2	210	3,1	3,7	1,82	0,06	0,20	4,3

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000065	Sea Water	0,5	Surface	2003-02-17 07:30	4503			-0,010	0,19	7,1			
PFM000082	Sea Water	—	—	2002-03-20 13:04	4007				1,01	7,7		830	
PFM000082	Sea Water	0,5	Surface	2002-04-02 14:35	4036				1,02	7,9		840	
PFM000082	Sea Water	6,5	Bottom	2002-04-02 15:20	4032				1,02	7,9		840	
PFM000082	Sea Water	0,5	Surface	2002-04-16 13:30	4044	0,090		0,004	1,03	8,5		850	
PFM000082	Sea Water	6	Bottom	2002-04-16 13:30	4047	0,072		0,004	1,02	8,0		850	
PFM000082	Sea Water	0,5	Surface	2003-01-13 08:00	4438	0,011		0,003	1,03	8,2			
PFM000082	Sea Water	6,5	Bottom	2003-01-13 08:00	4439	0,010		0,002	1,04	8,0			
PFM000082	Sea Water	0,5	Surface	2003-02-17 07:30	4489			0,016	0,73	7,5			
PFM000082	Sea Water	6,5	Bottom	2003-02-17 07:30	4490			0,021	1,07	7,7			
PFM000083	Sea Water	—	—	2002-03-18 16:30	4000				0,77	7,7		650	
PFM000083	Sea Water	0,5	Surface	2002-04-01 18:15	4029				1,01	7,8		810	
PFM000083	Sea Water	6,5	Bottom	2002-04-01 19:00	4025				0,98	7,8		850	
PFM000083	Sea Water	6	Bottom	2002-04-16 19:37	4054	0,073	-0,003	0,028	1,03	8,0		860	
PFM000083	Sea Water	0,5	Surface	2002-04-16 19:37	4053	0,135	0,01	0,028	1,04	7,9		860	
PFM000084	Sea Water	—	—	2002-03-20 13:49	4005				0,64	7,5		530	
PFM000084	Sea Water	0,5	Surface	2002-04-02 10:30	4035				0,22	7,6		170	
PFM000084	Sea Water	2,5	Bottom	2002-04-02 11:10	4037				0,84	7,7		770	
PFM000084	Sea Water	2,5	Bottom	2002-04-17 18:30	4063	0,838	0,09	0,006	0,16	7,9		110	
PFM000084	Sea Water	0,5	Surface	2002-04-17 18:30	4062	0,849	0,09	0,006	0,16	7,9		110	
PFM000153	Sea Water	0,3	Surface	2002-05-07 12:55	4086			0,019	0,71	8,1		602	
PFM000153	Sea Water	0,5	Surface	2002-05-14 12:08	4104			0,021	0,80	8,1		687	
PFM000066	Streaming Water	0,2	Surface	2002-03-20 11:05	4015				0,06	7,2		32,0	
PFM000066	Streaming Water	0,2	Surface	2002-04-15 11:40	4045	0,131		0,002	0,06	7,8		31,0	
PFM000066	Streaming Water	0,1	Surface	2002-05-05 20:20	4070			0,002	0,07	7,8		34,0	
PFM000066	Streaming Water	0,5	Surface	2002-05-12 19:00	4092			0,002	0,07	7,9		34,7	
PFM000066	Streaming Water	0,05	Surface	2002-05-26 22:00	4119			0,002	0,07	7,5		35,5	
PFM000066	Streaming Water	0,1	Surface	2002-06-23 21:10	4174			0,002	0,06	7,7		31,2	-0,03
PFM000066	Streaming Water	0,2	Surface	2002-07-16 00:00	4208	0,232	0,01	0,002	0,07	7,9		34,0	0,006
PFM000066	Streaming Water	0,05	Surface	2002-08-11 22:00	4223	0,167	0,01	0,001	0,08	7,6		35,6	0,008

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000066	Streaming Water	0,5	Surface	2002-11-26 08:00	4394	-1,30	4,2	2,85	49,4	2,6	135	4,1	32,7	10,9	-0,20	0,21	3,9
PFM000066	Streaming Water	0,1	Surface	2002-12-17 07:30	4424	1,56	5,8	2,60	69,2	3,4	186	8,8	25,9	9,94	0,13	0,24	5,6
PFM000066	Streaming Water	0,1	Surface	2003-01-13 08:00	4454	2,14	7,9	3,15	84,6	4,2	245	6,0	27,5	9,58	-0,20		6,7
PFM000066	Streaming Water	0,1	Surface	2003-02-17 07:30	4509	2,26	7,5	2,76	81,6	4,0	232	8,5	23,6	8,59	0,07	0,18	6,0
PFM000067	Streaming Water	0,1	Surface	2002-03-19 10:16	4009	6,59	13,0	2,50	45,7	4,0	130	17,6	7,8	3,41	-0,20		4,4
PFM000067	Streaming Water	0,2	Surface	2002-04-01 15:15	4023	-1,48	18,2	2,18	36,2	4,1	110	38,4	10,0	3,14	-0,20		2,6
PFM000067	Streaming Water	0,5	Surface	2002-04-17 11:00	4057	-0,55	92,8	5,09	46,5	12,8	110	185	26,1	9,43	0,66	0,25	2,5
PFM000067	Streaming Water	0,1	Surface	2002-05-06 09:30	4072	-1,90	81,0	4,45	46,4	11,3	130	158	22,8	8,90	0,56		1,2
PFM000067	Streaming Water	0,5	Surface	2002-05-13 12:00	4098	-3,34	78,7	4,65	46,2	11,3	130	162	23,4	8,79	0,49		0,7
PFM000067	Streaming Water	0,1	Surface	2002-05-27 09:15	4123	-3,05	83,0	4,74	46,6	12,0	130	171	25,9	8,52	0,64		0,3
PFM000067	Streaming Water	0,05	Surface	2002-06-10 09:40	4149	-4,02	105	5,60	52,1	14,3	150	214	30,5	11,1	0,61	0,30	0,8
PFM000067	Streaming Water	0,05	Surface	2002-06-24 10:00	4180	-0,79	90,0	5,09	46,8	13,4	130	172	26,2	9,61	0,46	0,27	1,2
PFM000067	Streaming Water	0,1	Surface	2002-07-15 00:00	4204	1,29	72,2	4,25	43,1	10,3	120	127	21,1	8,12	0,44	0,49	1,1
PFM000067	Streaming Water	0,1	Surface	2002-08-12 17:50	4242	-2,36	53,8	3,52	41,7	8,5	130	102	18,5	7,04	0,40	0,38	2,0
PFM000067	Streaming Water	0,1	Surface	2002-09-02 07:30	4259	1,04	65,0	3,91	44,4	9,7	141	107	23,8	7,66	0,42	0,36	1,9
PFM000067	Streaming Water	0,05	Surface	2002-09-16 18:00	4286	-1,24	62,5	4,02	43,3	10,2	140	113	20,9	7,51	0,53	0,39	1,5
PFM000067	Streaming Water	0,1	Surface	2002-09-30 07:30	4313	-	58,9	3,73	40,7	9,8	129			6,96	0,45		0,9
PFM000067	Streaming Water	0,05	Surface	2002-10-22 07:30	4339	2,60	62,9	4,44	45,4	10,4	124	112	25,3	7,50	0,46	0,25	0,4
PFM000067	Streaming Water	0,05	Surface	2002-11-13 07:00	4356	-1,00	59,8	4,24	44,1	9,7	146	106	20,9	6,82	0,47	0,36	0,2
PFM000067	Streaming Water	0,05	Surface	2002-11-26 08:00	4395	-5,47	46,8	3,37	36,9	7,7	126	94,2	17,3	6,23	0,19	0,24	0,2
PFM000067	Streaming Water	0,1	Surface	2002-12-17 07:30	4427	-0,03	41,9	3,71	50,6	7,9	148	76,9	22,3	7,74	0,20	0,30	2,0
PFM000067	Streaming Water	0,1	Surface	2003-01-15 07:30	4459	0,96	54,1	5,00	60,9	9,8	191	90,8	20,8	7,97	0,30	0,30	2,2
PFM000067	Streaming Water	0,1	Surface	2003-02-18 07:30	4500	2,17	33,5	3,53	65,1	7,3	191	54,0	21,1	7,92	0,21	0,30	4,3
PFM000068	Streaming Water	0,5	Surface	2002-03-18 18:20	4014	5,58	6,5	2,10	50,8	3,3	150	7,1	5,4	2,45	0,20		5,2
PFM000068	Streaming Water	0,3	Surface	2002-04-01 16:10	4024	3,99	4,3	1,57	36,4	2,4	110	4,8	4,6	2,08	-0,20		2,7
PFM000068	Streaming Water	0,5	Surface	2002-04-15 15:10	4046	4,67	7,0	2,08	50,2	3,0	150	7,0	5,0	2,31	-0,20	0,68	4,2
PFM000068	Streaming Water	0,1	Surface	2002-05-05 20:00	4080	7,94	10,1	2,22	57,5	3,9	160	11,5	6,4	3,15			4,5
PFM000068	Streaming Water	0,1	Surface	2002-05-13 18:00	4093	5,29	12,7	2,33	61,4	4,4	180	17,3	6,6	3,09	-0,20		5,1
PFM000068	Streaming Water	0,1	Surface	2002-05-28 12:00	4137	3,43	19,0	2,17	59,7	5,5	180	31,3	7,5	3,15	-0,20		5,7
PFM000068	Streaming Water	0,03	Surface	2002-06-11 11:00	4160	5,33	31,2	2,85	70,7	6,9	210	50,4	1,22	0,21	0,51		6,8
PFM000068	Streaming Water	0,2	Surface	2002-06-23 23:15	4176	6,71	13,5	1,89	48,5	4,1	120	17,6	20,4	7,88	0,05	0,26	3,8

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000066	Streaming Water	0,5	Surface	2002-11-26 08:00	4394			0,028	0,06	7,4			
PFM000066	Streaming Water	0,1	Surface	2002-12-17 07:30	4424			-0,004	0,07	7,4			
PFM000066	Streaming Water	0,1	Surface	2003-01-13 08:00	4454			0,002	0,09	7,3			
PFM000066	Streaming Water	0,1	Surface	2003-02-17 07:30	4509			-0,004	0,08	7,0			
PFM000067	Streaming Water	0,1	Surface	2002-03-19 10:16	4009				0,06	7,5	32,0		
PFM000067	Streaming Water	0,2	Surface	2002-04-01 15:15	4023				0,06	7,2	30,0		
PFM000067	Streaming Water	0,5	Surface	2002-04-17 11:00	4057	0,166	0,01	0,005	0,12	7,9	81,0		
PFM000067	Streaming Water	0,1	Surface	2002-05-06 09:30	4072			0,003	0,11	8,0	74,5		
PFM000067	Streaming Water	0,5	Surface	2002-05-13 12:00	4098			0,003	0,10	8,3	76,3		
PFM000067	Streaming Water	0,1	Surface	2002-05-27 09:15	4123			0,003	0,11	8,2	78,0		
PFM000067	Streaming Water	0,05	Surface	2002-06-10 09:40	4149			0,004	0,13	7,9	90,5		0,006
PFM000067	Streaming Water	0,05	Surface	2002-06-24 10:00	4180			0,003	0,12	8,1	82,2		0,009
PFM000067	Streaming Water	0,1	Surface	2002-07-15 00:00	4204	0,081	0,01	0,003	0,10	7,9	67,2		0,007
PFM000067	Streaming Water	0,1	Surface	2002-08-12 17:50	4242	0,106	0,01	0,004	0,10	8,2	57,0		0,008
PFM000067	Streaming Water	0,1	Surface	2002-09-02 07:30	4259			0,004	0,11				0,011
PFM000067	Streaming Water	0,05	Surface	2002-09-16 18:00	4286			0,004	0,11				0,009
PFM000067	Streaming Water	0,1	Surface	2002-09-30 07:30	4313			0,005	0,10				0,009
PFM000067	Streaming Water	0,05	Surface	2002-10-22 07:30	4339	0,030	-0,003	0,004	0,11	7,9			0,008
PFM000067	Streaming Water	0,05	Surface	2002-11-13 07:00	4356			-0,004	0,11	8,3			0,009
PFM000067	Streaming Water	0,05	Surface	2002-11-26 08:00	4395			-0,004	0,09	8,4			
PFM000067	Streaming Water	0,1	Surface	2002-12-17 07:30	4427			-0,004	0,10	7,4			
PFM000067	Streaming Water	0,1	Surface	2003-01-15 07:30	4459	0,196	0,10	0,005	0,12	7,4			
PFM000067	Streaming Water	0,1	Surface	2003-02-18 07:30	4500			-0,004	0,11	7,1			
PFM000068	Streaming Water	0,5	Surface	2002-03-18 18:20	4014				0,06	7,6	30,0		
PFM000068	Streaming Water	0,3	Surface	2002-04-01 16:10	4024				0,05	7,4	22,0		
PFM000068	Streaming Water	0,5	Surface	2002-04-15 15:10	4046	0,280	0,03	0,002	0,06	7,7	28,0		
PFM000068	Streaming Water	0,1	Surface	2002-05-05 20:00	4080			0,002	0,08	7,4	33,0		
PFM000068	Streaming Water	0,1	Surface	2002-05-13 18:00	4093			0,002	0,09	7,6	37,4		
PFM000068	Streaming Water	0,1	Surface	2002-05-28 12:00	4137			0,003	0,10	8,0	43,1		
PFM000068	Streaming Water	0,03	Surface	2002-06-11 11:00	4160			0,003	0,13	8,1	52,1		0,019
PFM000068	Streaming Water	0,2	Surface	2002-06-23 23:15	4176			0,002	0,08	7,6	31,9	-0,03	0,005

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000068	Streaming Water	0,2	Surface	2002-07-16 00:00	4213	7,24	12,3	1,54	55,8	4,2	160	13,5	5,8	2,85	0,07	0,47	4,2
PFM000068	Streaming Water	0,1	Surface	2002-08-13 11:40	4238	1,19	12,7	1,54	58,6	4,4	190	17,0	5,2	2,50	0,13	0,70	5,7
PFM000068	Streaming Water	0,2	Surface	2002-09-03 07:30	4271	3,04	28,0	0,69	69,0	6,6	210	42,9	8,7	3,86	0,19	0,40	6,5
PFM000068	Streaming Water	0,1	Surface	2002-10-01 07:30	4301	-0,06	25,7	1,81	63,0	7,0	212	41,4	8,7	3,74	0,20	0,26	7,1
PFM000068	Streaming Water	0,5	Surface	2002-10-22 07:30	4343	2,18	27,1	2,26	73,0	7,9	226	47,5	9,0	3,80	0,12	0,27	8,1
PFM000068	Streaming Water	0,5	Surface	2002-11-13 07:00	4362	-1,48	22,4	1,88	72,3	6,8	213	44,9	28,3	9,11	0,20	0,38	7,1
PFM000068	Streaming Water	0,5	Surface	2002-11-26 08:00	4393	1,44	7,6	2,56	34,7	3,2	93	11,0	21,0	7,51	-0,20	0,30	5,0
PFM000068	Streaming Water	0,1	Surface	2002-12-18 07:30	4425	-5,93	10,5	2,44	59,2	4,3	151	13,1	24,7	8,67	-0,20	0,24	5,2
PFM000068	Streaming Water	0,1	Surface	2003-01-16 07:30	4457	3,29	15,9	3,04	66,2	5,1	202	19,2	14,8	5,50	-0,20	0,26	5,9
PFM000068	Streaming Water	0,1	Surface	2003-02-19 07:30	4497	2,59	12,2	2,29	68,2	4,8	202	15,6	17,0	6,43	-0,20	0,25	5,7
PFM000069	Streaming Water	0,2	Surface	2002-03-19 16:30	4016	3,65	8,3	2,24	56,1	3,8	170	10,6	7,5	3,15	-0,20	0,20	5,7
PFM000069	Streaming Water	0,2	Surface	2002-04-01 16:45	4028	-14,63	3,3	0,90	30,3	1,6	130	7,1	7,5	1,69	-0,20	0,20	2,5
PFM000069	Streaming Water	0,5	Surface	2002-04-17 13:45	4055	5,36	8,7	2,16	49,5	3,3	140	13,2	6,8	2,77	-0,20	0,25	4,5
PFM000069	Streaming Water	0,1	Surface	2002-05-06 19:30	4075	4,37	12,9	2,31	60,3	4,4	180	17,6	7,3	3,41	-0,20	0,20	5,3
PFM000069	Streaming Water	0,1	Surface	2002-05-13 16:30	4089	5,40	14,2	2,55	62,0	4,7	180	20,6	7,1	3,28	-0,20	0,20	5,7
PFM000069	Streaming Water	0,1	Surface	2002-05-28 11:40	4136	2,96	19,2	2,18	59,0	5,6	180	32,1	7,3	3,05	-0,20	0,20	5,8
PFM000069	Streaming Water	0,01	Surface	2002-06-11 00:00	4159	0,94	32,8	2,57	68,8	7,1	220	56,9	5,6	2,79	0,22	0,41	6,5
PFM000069	Streaming Water	0,1	Surface	2002-06-24 00:00	4189	-2,92	20,8	1,93	58,7	5,5	170	52,9	13,7	4,67	0,42	0,36	4,2
PFM000069	Streaming Water	0,15	Surface	2002-07-16 00:00	4211	5,10	15,9	1,34	61,3	4,9	180	20,5	8,1	3,73	0,10	0,41	4,4
PFM000069	Streaming Water	0,05	Surface	2002-08-13 11:00	4244	3,38	14,6	1,29	62,0	4,8	190	20,4	6,3	2,80	0,14	0,33	5,7
PFM000069	Streaming Water	0,1	Surface	2002-09-03 07:30	4252	5,95	27,6	0,63	67,4	6,6	190	41	9,3	4,00	0,37	0,44	6,3
PFM000069	Streaming Water	0,05	Surface	2002-10-01 07:30	4300	-1,94	25,1	1,38	60,9	6,8	213	41,9	8,2	3,62	0,21	0,28	7,2
PFM000069	Streaming Water	0,05	Surface	2002-10-22 07:30	4342	-1,78	26,7	1,58	70,4	7,6	222	59,3	9,3	3,38	0,20	0,25	8,0
PFM000069	Streaming Water	0,05	Surface	2002-11-13 07:00	4361	-3,20	24,4	1,34	69,6	6,9	228	54,1	8,7	2,98	0,25	0,48	8,0
PFM000069	Streaming Water	0,05	Surface	2002-11-26 08:00	4384	-4,19	13,8	2,48	46,9	4,3	141	31,9	19,7	6,95	-0,20	0,25	5,0
PFM000069	Streaming Water	0,1	Surface	2002-12-18 07:30	4406	2,82	14,4	2,68	70,9	5,3	188	22,8	31,7	10,6	-0,20	0,48	6,5
PFM000069	Streaming Water	0,1	Surface	2003-01-16 07:30	4455	3,41	27,3	3,72	85,5	7,2	256	40,6	17,5	6,16	0,22	0,29	8,7
PFM000069	Streaming Water	0,1	Surface	2003-02-19 07:30	4505	2,19	17,4	2,29	79,1	6,0	229	27,4	20,7	7,68	0,20	0,41	6,9
PFM000070	Streaming Water	0,1	Surface	2002-03-18 12:30	4012	9,34	4,5	1,70	43,7	2,5	120	3,8	3,5	1,57	0,23	0,23	4,1
PFM000070	Streaming Water	0,1	Surface	2002-04-02 11:35	4030	-16,06	3,9	1,27	29,2	1,7	140	3,5	3,3	1,38	0,37	0,37	2,6
PFM000070	Streaming Water	0,1	Surface	2002-04-16 10:00	4051	5,56	5,0	1,91	54,3	2,6	160	3,7	4,2	1,98	-0,20	0,11	3,4

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- "value" = result less than detection limit  
ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000068	Streaming Water	0,2	Surface	2002-07-16 00:00	4213	0,490	0,01	0,002	0,08	7,8	33,3	33,3	0,006
PFM000068	Streaming Water	0,1	Surface	2002-08-13 11:40	4238	0,587	0,04	0,003	0,10	7,8	37,3	37,3	0,010
PFM000068	Streaming Water	0,2	Surface	2002-09-03 07:30	4271			0,003	0,12				0,010
PFM000068	Streaming Water	0,1	Surface	2002-10-01 07:30	4301			0,004	0,11	7,6			0,007
PFM000068	Streaming Water	0,5	Surface	2002-10-22 07:30	4343	0,180	0,03	0,004	0,12	7,4			
PFM000068	Streaming Water	0,5	Surface	2002-11-13 07:00	4362			-0,004	0,13	7,5			0,009
PFM000068	Streaming Water	0,5	Surface	2002-11-26 08:00	4393			-0,004	0,06	6,7			
PFM000068	Streaming Water	0,1	Surface	2002-12-18 07:30	4425			-0,004	0,08	7,1			
PFM000068	Streaming Water	0,1	Surface	2003-01-16 07:30	4457	0,221	0,06	0,003	0,10	7,0			
PFM000068	Streaming Water	0,1	Surface	2003-02-19 07:30	4497			-0,004	0,09	7,0			
PFM000069	Streaming Water	0,2	Surface	2002-03-19 16:30	4016			0,07	0,07	7,1	34,0		
PFM000069	Streaming Water	0,2	Surface	2002-04-01 16:45	4028			0,04	0,04	7,3	26,0		
PFM000069	Streaming Water	0,5	Surface	2002-04-17 13:45	4055	0,149	0,01	0,002	0,06	7,4	29,0		
PFM000069	Streaming Water	0,1	Surface	2002-05-06 19:30	4075			0,002	0,09	7,8	36,9		
PFM000069	Streaming Water	0,1	Surface	2002-05-13 16:30	4089			0,002	0,09	7,5	39,0		
PFM000069	Streaming Water	0,1	Surface	2002-05-28 11:40	4136			0,003	0,10	7,9	42,8		
PFM000069	Streaming Water	0,01	Surface	2002-06-11 00:00	4159			0,004	0,13	8,1	52,2		0,014
PFM000069	Streaming Water	0,1	Surface	2002-06-24 00:00	4189			0,002	0,10	7,5	41,1		0,008
PFM000069	Streaming Water	0,15	Surface	2002-07-16 00:00	4211	0,292	0,01	0,002	0,09	7,7	38,2		0,005
PFM000069	Streaming Water	0,05	Surface	2002-08-13 11:00	4244	0,237	0,01	0,003	0,10	7,7	40,2		0,008
PFM000069	Streaming Water	0,1	Surface	2002-09-03 07:30	4252			0,004	0,12				0,012
PFM000069	Streaming Water	0,05	Surface	2002-10-01 07:30	4300			0,004	0,11	7,8			0,007
PFM000069	Streaming Water	0,05	Surface	2002-10-22 07:30	4342	0,080	0,02	0,004	0,12	7,3			
PFM000069	Streaming Water	0,05	Surface	2002-11-13 07:00	4361			-0,004	0,12	7,4			
PFM000069	Streaming Water	0,05	Surface	2002-11-26 08:00	4384			-0,004	0,08	7,6			
PFM000069	Streaming Water	0,1	Surface	2002-12-18 07:30	4406			-0,004	0,10	7,0			
PFM000069	Streaming Water	0,1	Surface	2003-01-16 07:30	4455	0,623	0,12	0,003	0,13	6,8			
PFM000069	Streaming Water	0,1	Surface	2003-02-19 07:30	4505			-0,004	0,11	6,9			
PFM000070	Streaming Water	0,1	Surface	2002-03-18 12:30	4012			0,05	0,05	7,6	24,0		
PFM000070	Streaming Water	0,1	Surface	2002-04-02 11:35	4030			0,03	0,03	7,5	34,0		
PFM000070	Streaming Water	0,1	Surface	2002-04-16 10:00	4051	0,079	0,04	0,002	0,05	7,9	28,0		

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ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/L	Br mg/l	F- mg/L	Si mg/L
PFM000070	Streaming Water	0,1	Surface	2002-05-06 16:02	4078	5,10	5,2	1,79	50,9	2,6	150	4,1	4,3	2,21	1,64		2,2
PFM000070	Streaming Water	0,05	Surface	2002-05-13 14:40	4100	4,45	5,3	1,81	49,5	2,6	150	4,6	3,9	1,98	-0,20		2,1
PFM000070	Streaming Water	0,02	Surface	2002-06-25 09:33	4193	5,67	5,5	1,32	44,3	2,7	130	4,7	4,8	2,11	0,05	0,30	2,1
PFM000070	Streaming Water	0,2	Surface	2002-07-16 00:00	4210	6,34	5,8	1,77	40,2	2,7	120	4,2	3,9	2,02	0,03	0,38	2,4
PFM000070	Streaming Water	0,05	Surface	2002-08-13 09:30	4240	2,21	5,5	1,39	39,9	2,6	130	4,1	3,4	1,56	0,04	0,54	3,5
PFM000070	Streaming Water	0,1	Surface	2002-11-26 08:00	4375	3,91	5,4	1,91	34,9	2,6	109	3,9	5,4	2,57	-0,20	0,21	2,5
PFM000070	Streaming Water	0,1	Surface	2002-12-18 07:30	4423	5,05	6,6	2,18	47,1	3,1	141	4,9	8,0	3,25	-0,20	0,25	3,3
PFM000070	Streaming Water	0,1	Surface	2003-01-16 07:30	4456	4,75	9,7	3,08	52,8	3,4	168	5,4	6,5	2,95	0,07	0,25	3,7
PFM000070	Streaming Water	0,1	Surface	2003-02-18 07:30	4508	2,00	6,9	2,29	56,6	3,2	177	5,6	9,5	3,69	-0,20	0,36	4,0
PFM000071	Streaming Water	0,1	Surface	2002-03-18 10:00	4013	1,34	3,5	1,97	68,9	3,3	220	2,6	4,2	1,78	1,56		4,3
PFM000071	Streaming Water	0,2	Surface	2002-04-01 13:30	4022	-1,99	2,8	1,82	52,3	2,8	180	2,3	3,6	1,50	1,47		3,2
PFM000071	Streaming Water	0,1	Surface	2002-04-16 11:00	4050	4,18	4,0	2,05	75,8	3,3	230	2,1	3,7	1,54	0,69	0,13	3,8
PFM000071	Streaming Water	0,1	Surface	2002-05-05 12:00	4077	-2,32	4,2	1,99	84,2	3,8	270	16,6	5,7	1,29	0,23		4,0
PFM000071	Streaming Water	0,15	Surface	2002-05-13 14:00	4101	4,69	3,8	2,01	82,9	3,7	250	1,9	3,0	1,49	-0,20		3,3
PFM000071	Streaming Water	0,05	Surface	2002-06-25 09:10	4192	5,08	3,8	1,55	76,0	3,5	220	2,0	7,4	2,96	-0,20	0,39	4,7
PFM000071	Streaming Water	0,1	Surface	2002-07-16 00:00	4209	3,96	3,7	2,11	82,0	3,7	250	2,3	2,7	1,34	0,06	0,28	4,7
PFM000071	Streaming Water	0,05	Surface	2002-08-13 09:00	4239	0,33	3,6	2,14	83,9	3,8	280	1,5	1,1	0,55	0,04	0,37	5,9
PFM000071	Streaming Water	0,5	Surface	2002-11-26 08:00	4374	-2,48	3,5	2,49	62,7	3,2	205	3,5	13,6	5,10	-0,20	0,27	4,2
PFM000071	Streaming Water	0,1	Surface	2002-12-18 07:30	4422	1,98	3,9	2,15	81,0	3,7	247	3,0	10,9	3,94	-0,20	0,28	4,7
PFM000071	Streaming Water	0,1	Surface	2003-01-15 07:30	4460	2,55	5,6	2,64	86,3	4,1	268	3,2	9,2	3,46	-0,20	0,24	4,7
PFM000071	Streaming Water	0,1	Surface	2003-02-18 07:30	4506	1,39	4,1	2,23	81,9	3,8	258	2,8	7,8	3,01	-0,20	0,19	4,4
PFM000072	Streaming Water	0,5	Surface	2002-03-18 15:00	4010	1,62	15,1	3,34	48,3	5,8	160	16,8	16,9	6,72	-0,20		4,0
PFM000072	Streaming Water	0,2	Surface	2002-04-01 19:45	4031	16,02	14,7	3,06	45,4	5,2	95	19,8	14,7	5,66	-0,20		2,0
PFM000072	Streaming Water	0,5	Surface	2002-04-15 16:29	4042	5,06	14,0	2,99	47,1	4,8	140	17,7	11,8	4,64	-0,20	0,40	1,7
PFM000072	Streaming Water	0,2	Surface	2002-05-06 12:00	4071	4,04	16,4	3,04	43,5	5,2	140	18,5	11,2	4,92	0,30		0,9
PFM000072	Streaming Water	0,5	Surface	2002-05-13 15:50	4094	3,84	19,2	3,66	46,3	5,9	150	24,5	10,2	4,69	0,29		1,1
PFM000072	Streaming Water	0,2	Surface	2002-05-27 21:00	4134	1,93	34,1	4,10	44,8	8,1	170	47,5	7,2	3,15	0,15		1,9
PFM000072	Streaming Water	0,5	Surface	2002-06-10 21:00	4161	-3,34	46,0	4,80	54,7	9,9	220	74,5	12,4	5,17	0,87	0,42	1,9
PFM000072	Streaming Water	0,5	Surface	2002-06-23 22:00	4175	3,71	21,7	2,52	25,0	4,8	64	24,1	29,1	11,6	0,04	0,12	0,9
PFM000072	Streaming Water	0,2	Surface	2002-07-15 00:00	4214	4,38	28,9	1,60	36,1	6,4	130	34,1	7,4	3,37	0,47	0,27	1,1
PFM000072	Streaming Water	0,5	Surface	2002-08-12 20:30	4243	0,41	28,0	1,42	36,4	6,5	140	37,7	6,9	3,16	0,31	0,43	1,2

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- "value" = result less than detection limit  
ChargeBal % = Relative charge balance error %

SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000070	Streaming Water	0,1	Surface	2002-05-06 16:02	4078			0,001	0,05	8,1	27,2		
PFM000070	Streaming Water	0,05	Surface	2002-05-13 14:40	4100			0,001	0,05	7,6	27,4		
PFM000070	Streaming Water	0,02	Surface	2002-06-25 09:33	4193			0,001	0,05	7,5	24,0		0,006
PFM000070	Streaming Water	0,2	Surface	2002-07-16 00:00	4210	0,060		0,05	0,05	7,6	22,7		0,007
PFM000070	Streaming Water	0,05	Surface	2002-08-13 09:30	4240	0,088		0,07	0,07	7,6	23,8		0,008
PFM000070	Streaming Water	0,1	Surface	2002-11-26 08:00	4375			-0,004	0,05	7,7			
PFM000070	Streaming Water	0,1	Surface	2002-12-18 07:30	4423			-0,004	0,06	7,6			
PFM000070	Streaming Water	0,1	Surface	2003-01-16 07:30	4456	0,026		0,02	0,06	7,7			
PFM000070	Streaming Water	0,1	Surface	2003-02-18 07:30	4508			-0,004	0,06	7,3			
PFM000071	Streaming Water	0,1	Surface	2002-03-18 10:00	4013				0,07	8,0	37,0		
PFM000071	Streaming Water	0,2	Surface	2002-04-01 13:30	4022				0,05	7,5	31,0		
PFM000071	Streaming Water	0,1	Surface	2002-04-16 11:00	4050	0,238		0,05	0,02	8,0	37,0		
PFM000071	Streaming Water	0,1	Surface	2002-05-05 12:00	4077			0,002	0,08	8,0	42,2		
PFM000071	Streaming Water	0,15	Surface	2002-05-13 14:00	4101			0,002	0,08	7,9	42,1		
PFM000071	Streaming Water	0,05	Surface	2002-06-25 09:10	4192			0,002	0,07	7,6	37,7		0,006
PFM000071	Streaming Water	0,1	Surface	2002-07-16 00:00	4209	0,216		0,02	0,02	8,0	40,1		0,010
PFM000071	Streaming Water	0,05	Surface	2002-08-13 09:00	4239	0,943		0,09	0,02	7,9	43,6		0,021
PFM000071	Streaming Water	0,5	Surface	2002-11-26 08:00	4374			-0,004	0,07	7,5			
PFM000071	Streaming Water	0,1	Surface	2002-12-18 07:30	4422			-0,004	0,08	7,4			
PFM000071	Streaming Water	0,1	Surface	2003-01-15 07:30	4460	0,036		0,01	0,02	7,4			
PFM000071	Streaming Water	0,1	Surface	2003-02-18 07:30	4506			-0,004	0,08	7,5			
PFM000072	Streaming Water	0,5	Surface	2002-03-18 15:00	4010				0,08	7,4	36,0		
PFM000072	Streaming Water	0,2	Surface	2002-04-01 19:45	4031				0,08	7,4	18,0		
PFM000072	Streaming Water	0,5	Surface	2002-04-15 16:29	4042	0,047		0,001	0,07	7,6	32,0		
PFM000072	Streaming Water	0,2	Surface	2002-05-06 12:00	4071			0,003	0,08	7,6	32,5		
PFM000072	Streaming Water	0,5	Surface	2002-05-13 15:50	4094			0,004	0,08	7,5	36,0		
PFM000072	Streaming Water	0,2	Surface	2002-05-27 21:00	4134			0,005	0,10	7,7	46,3		
PFM000072	Streaming Water	0,5	Surface	2002-06-10 21:00	4161			0,005	0,13	8,0	55,9		0,014
PFM000072	Streaming Water	0,5	Surface	2002-06-23 22:00	4175			0,002	0,06	7,3	28,3	-0,03	0,003
PFM000072	Streaming Water	0,2	Surface	2002-07-15 00:00	4214	0,238		0,01	0,04	7,5	35,6		0,008
PFM000072	Streaming Water	0,5	Surface	2002-08-12 20:30	4243	0,323		0,01	0,05	7,6			0,009

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SICADA: water\_composition, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Charge Bal %	Na mg/L	K mg/L	Ca mg/L	Mg mg/L	HCO3 mg/L	Cl mg/L	SO4 mg/L	SO4-S mg/l	Br mg/l	F- mg/L	Si mg/L
PFM000072	Streaming Water	0,1	Surface	2002-11-12 08:00	4345	-0,84	72,8	4,72	49,1	11,8	128	118	71,7	22,3	0,33	0,17	2,2
PFM000072	Streaming Water	0,1	Surface	2002-11-26 08:00	4392	-5,12	21,5	4,16	21,6	4,9	76	36,7	23,7	8,01	-0,20	0,22	1,8
PFM000072	Streaming Water	0,1	Surface	2002-12-18 07:30	4428	0,21	42,0	5,26	53,8	9,8	193	63,3	21,7	7,53	0,08	0,24	3,0
PFM000072	Streaming Water	0,1	Surface	2003-01-16 07:30	4458	0,01	70,4	4,87	63,6	15,3	201	108	55,2	20,5	0,39	0,13	3,1
PFM000072	Streaming Water	0,1	Surface	2003-02-19 07:30	4504	2,98	76,3	6,41	73,2	16,7	228	102	60,4	22,2	0,59	0,12	4,4
PFM000073	Streaming Water	0,1	Surface	2002-03-18 17:40	4011	-0,69	8,2	8,17	115	12,7	380	6,9	53,6	16,4	0,45		3,4
PFM000073	Streaming Water	0,05	Surface	2002-04-02 09:20	4034	-9,18	8,0	6,76	91,9	11,8	380	6,1	44,2	14,5	-0,20		1,5
PFM000073	Streaming Water	0,1	Surface	2002-04-15 18:10	4043	1,30	10,0	6,42	122	13,3	390	5,9	48,4	16,1		0,44	0,6
PFM000073	Streaming Water	0,1	Surface	2002-05-06 18:35	4074	0,53	11,4	6,27	117	14,5	400	6,9	40,5	13,8	-0,20		1,5
PFM000073	Streaming Water	0,03	Surface	2002-05-13 16:30	4095	2,22	12,4	6,79	106	14,5	370	7,0	27,1	10,0	0,23		3,2
PFM000073	Streaming Water	0,05	Surface	2002-11-26 08:00	4385	1,36	6,7	8,23	101	10,5	293	5,9	66,8	19,8	-0,20	0,66	3,9
PFM000073	Streaming Water	0,1	Surface	2002-12-18 07:30	4429	0,79	12,4	9,53	153	16,8	455	7,6	89,6	31,2	-0,20	0,63	5,8

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Fe mg/L	Mn mg/L	Li mg/L	Sr mg/L	pH (lab)	El. Cond (lab) mS/m	HS- mg/L	I- mg/L
PFM000072	Streaming Water	0,1	Surface	2002-11-12 08:00	4345	0,441	0,06	0,006	0,13	7,2			0,003
PFM000072	Streaming Water	0,1	Surface	2002-11-26 08:00	4392			-0,004	0,05	6,6			
PFM000072	Streaming Water	0,1	Surface	2002-12-18 07:30	4428			0,007	0,12	6,9		-0,03	
PFM000072	Streaming Water	0,1	Surface	2003-01-16 07:30	4458	1,450	0,10	0,007	0,16	6,6			
PFM000072	Streaming Water	0,1	Surface	2003-02-19 07:30	4504			0,006	0,18	6,5			
PFM000073	Streaming Water	0,1	Surface	2002-03-18 17:40	4011				0,20	8,1	69,0		
PFM000073	Streaming Water	0,05	Surface	2002-04-02 09:20	4034				0,16	8,0	67,0		
PFM000073	Streaming Water	0,1	Surface	2002-04-15 18:10	4043	0,107	0,03	0,011	0,21	8,3	69,0		
PFM000073	Streaming Water	0,1	Surface	2002-05-06 18:35	4074			0,012	0,22	8,3	69,0		
PFM000073	Streaming Water	0,03	Surface	2002-05-13 16:30	4095			0,013	0,20	8,1	63,7		
PFM000073	Streaming Water	0,05	Surface	2002-11-26 08:00	4385			0,011	0,18	8,3			
PFM000073	Streaming Water	0,1	Surface	2002-12-18 07:30	4429			0,014	0,26	7,8			

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SICADA: water\_composition, 020301-030301

**Nutrient salts, silicate and organic carbon**

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000074	Lake Water	0,5	Surface	2002-05-05 12:00	4067	0,00310		0,00890		0,684	0,00870	0,0021	0,00470	0,0413
PFM000074	Lake Water	0,5	Surface	2002-06-09 00:00	4143	0,00241		0,00368		1,05	0,0161	0,0037	0,00881	0,0871
PFM000074	Lake Water	0,5	Surface	2002-06-23 19:15	4168	0,00700		0,00390		0,863	0,0115	0,0018	0,00400	0,0384
PFM000074	Lake Water	0,5	Surface	2002-07-14 00:00	4202	0,00166		0,00064		0,866	0,00996	0,0018	0,00372	0,0219
PFM000074	Lake Water	0,5	Surface	2002-08-11 20:00	4224					0,895	0,00810		0,00250	0,0218
PFM000074	Lake Water	0,5	Surface	2002-09-02 07:30	4251	0,00240		0,00200			0,0018	0,0018	0,00440	
PFM000074	Lake Water	0,5	Surface	2002-09-15 18:00	4276	0,00630		0,00060		0,985	0,00920	0,0022	0,00360	0,0420
PFM000074	Lake Water	0,5	Surface	2002-10-01 07:30	4309	0,00990		0,00080		0,951	0,00920	0,0021	0,00384	0,0369
PFM000074	Lake Water	0,5	Surface	2002-11-12 08:00	4337	0,00674	0,00039	0,00995		0,897	0,00707	0,0020	0,00355	0,0661
PFM000074	Lake Water	0,5	Surface	2002-12-17 07:30	4415	0,00468	0,00117	0,09689		0,852	0,00582	0,0023	0,00162	0,0116
PFM000074	Lake Water	0,5	Surface	2003-01-16 07:30	4453	0,117	0,00350	0,04700		1,29	0,0122	0,0018	0,00550	0,0464
PFM000074	Lake Water	0,5	Surface	2003-02-18 07:30	4507	0,0145		0,03220		0,812	0,00720	0,0012	0,00130	0,0111
PFM000086	Lake Water	0,2	Surface	2002-04-02 16:30	4038	0,00500		0,00700		0,531	0,00700	0,0020	0,0130	0,0030
PFM000087	Lake Water	1,8	Bottom	2002-04-17 16:00	4061	0,0590		0,00220		0,551	0,00970	0,0013	0,00480	0,0262
PFM000087	Lake Water	0,5	Surface	2002-04-17 16:00	4060	0,0680		0,00090		0,551	0,0100	0,0011	0,00450	0,0225
PFM000087	Lake Water	1,8	Bottom	2002-05-05 12:00	4066	0,00390		0,00360		0,671	0,0113	0,0022	0,00770	0,0502
PFM000087	Lake Water	1,8	Bottom	2002-05-12 19:00	4091	0,0117		0,00107		0,752	0,0154	0,0025	0,00960	0,0773
PFM000087	Lake Water	1,8	Surface	2002-05-12 19:00	4088	0,00179	0,002	0,00978	-0,01	0,763	0,0165	0,0025	0,00948	0,0655
PFM000087	Lake Water	1,8	Bottom	2002-05-26 12:00	4118	0,00581		0,00112		0,909	0,0231	0,0035	0,00952	0,0815
PFM000087	Lake Water	0,5	Surface	2002-05-26 12:00	4117	0,00486		0,00309		0,873	0,0187	0,0034	0,00906	0,0672
PFM000087	Lake Water	1,5	Bottom	2002-06-09 00:00	4142	0,0173		0,00396		1,00	0,0171	0,0040	0,0118	0,0913
PFM000087	Lake Water	0,5	Surface	2002-06-09 00:00	4135	0,0109	0,002	0,00177	-0,01	0,973	0,0154	0,0052	0,00494	0,0458
PFM000087	Lake Water	1,5	Bottom	2002-06-23 20:30	4148	0,0154		0,00410		0,893	0,0146	0,0022	0,00600	0,0451
PFM000087	Lake Water	0,5	Surface	2002-06-23 20:30	4144	0,0110	-0,001	0,00410	-0,01	0,886	0,0133	0,0023	0,00480	0,0416
PFM000087	Lake Water	0,5	Surface	2002-07-14 23:00	4200	0,00294		0,00190		0,876	0,0141	0,0026	0,00806	0,0570
PFM000087	Lake Water	1,5	Bottom	2002-07-14 23:00	4201	0,0160		0,00092		0,928	0,0134	0,0023	0,00782	0,0571
PFM000087	Lake Water	1,5	Bottom	2002-08-11 21:30	4222	0,00650		0,00170		0,948	0,0121	0,0020	0,00460	0,0578
PFM000087	Lake Water	0,5	Surface	2002-08-11 21:30	4203	0,00200		0,00180		0,897	0,0101	0,0019	0,00440	0,0414
PFM000087	Lake Water	0,5	Surface	2002-09-02 07:30	4263	0,00670		0,00110				0,0021	0,00450	
PFM000087	Lake Water	1,5	Bottom	2002-09-02 07:30	4264	0,00490		0,00020				0,0018	0,00440	
PFM000087	Lake Water	1,5	Bottom	2002-09-15 18:00	4279	0,00930		0,00070		0,939	0,00970	0,0023	0,00400	0,0470
PFM000087	Lake Water	0,5	Surface	2002-09-15 18:30	4278	0,0108		0,00080		0,957	0,0116	0,0030	0,00490	0,0510
PFM000087	Lake Water	1,5	Bottom	2002-10-01 07:30	4295	0,0104		0,00080		0,921	0,00930	0,0017	0,00374	

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000074	Lake Water	0,5 Surface		2002-05-05 12:00	4067	3,60	0,90	-0,5	-0,5	0,252	13,8	14,3	7,2
PFM000074	Lake Water	0,5 Surface		2002-06-09 00:00	4143	4,21	4,03	-0,5	2,64	0,659	19,1	18,4	14,0
PFM000074	Lake Water	0,5 Surface		2002-06-23 19:15	4168	2,85	1,30	-0,5	0,8	0,205	15,8	15,2	8,6
PFM000074	Lake Water	0,5 Surface		2002-07-14 00:00	4202	3,58	0,59	-0,5	0,61	0,181	19,1	18,6	10,7
PFM000074	Lake Water	0,5 Surface		2002-08-11 20:00	4224		0,90	-0,5	0,5	0,151	20,9	19,8	7,8
PFM000074	Lake Water	0,5 Surface		2002-09-02 07:30	4251	6,88	2,50	-0,5	-0,5		20,6	22,2	9,8
PFM000074	Lake Water	0,5 Surface		2002-09-15 18:00	4276	8,78	2,70	-0,5	-0,5	0,356	19,6	17,9	10,5
PFM000074	Lake Water	0,5 Surface		2002-10-01 07:30	4309	8,18	1,70	-0,5	0,7	0,308	18,8	18,8	11,2
PFM000074	Lake Water	0,5 Surface		2002-11-12 08:00	4337	7,44	2,20	-0,5	0,7	0,380	17,2	16,8	11,1
PFM000074	Lake Water	0,5 Surface		2002-12-17 07:30	4415	4,80	-0,50	-0,5	-0,5	0,099	16,5	15,0	5,0
PFM000074	Lake Water	0,5 Surface		2003-01-16 07:30	4453	6,83	5,60	-0,5	4,7	0,180	19,0	18,6	3,1
PFM000074	Lake Water	0,5 Surface		2003-02-18 07:30	4507	6,00	-0,5	-0,5	-0,5	0,071	18,4	18,0	4,7
PFM000086	Lake Water	0,2 Surface		2002-04-02 16:30	4038	3,76				0,084	12,7	12,8	6,0
PFM000087	Lake Water	1,8 Bottom		2002-04-17 16:00	4061	3,47	1,00	-0,5	-0,5	0,163	12,0	12,7	12,0
PFM000087	Lake Water	0,5 Surface		2002-04-17 16:00	4060	3,63	0,90	-0,5	-0,5	0,161	12,7	12,5	12,3
PFM000087	Lake Water	1,8 Bottom		2002-05-05 12:00	4066	2,87	3,80	-0,5	0,5	0,342	13,7	13,6	9,8
PFM000087	Lake Water	1,8 Bottom		2002-05-12 19:00	4091	2,83	2,32	-0,5	1,61	0,504	13,9	14,1	11,2
PFM000087	Lake Water	0,5 Surface		2002-05-12 19:00	4088	2,56	2,13	-0,5	2,53	0,428	11,0	11,0	11,1
PFM000087	Lake Water	1,8 Bottom		2002-05-26 12:00	4118	2,72	6,30	0,82	1,38	0,342	16,1	16,2	10,4
PFM000087	Lake Water	0,5 Surface		2002-05-26 12:00	4117	2,73	6,64	1,08	-0,5	0,371	16,4	13,6	10,6
PFM000087	Lake Water	1,5 Bottom		2002-06-09 00:00	4142	3,56	0,55	-0,5	0,62	0,450	16,1	15,8	11,0
PFM000087	Lake Water	0,5 Surface		2002-06-09 00:00	4135	3,47	0,83	-0,5	0,84	0,280	16,7	14,6	13,9
PFM000087	Lake Water	1,5 Bottom		2002-06-23 20:30	4148	4,76	1,60	-0,5	0,8	0,247	14,9	14,3	9,1
PFM000087	Lake Water	0,5 Surface		2002-06-23 20:30	4144	4,73	1,80	-0,5	1,3	0,278	16,3	15,8	9,4
PFM000087	Lake Water	0,5 Surface		2002-07-14 23:00	4200	4,22	2,23	-0,5	1,39	0,438	17,5	16,9	11,3
PFM000087	Lake Water	1,5 Bottom		2002-07-14 23:00	4201	4,33	5,73	0,47	0,6	0,500	17,5	16,7	12,0
PFM000087	Lake Water	1,5 Bottom		2002-08-11 21:30	4222	6,53	2,40	-0,5	2,9	0,364	18,6	17,7	5,8
PFM000087	Lake Water	0,5 Surface		2002-08-11 21:30	4203	6,22	2,10	-0,5	-0,5	0,265	19,1	16,2	11,0
PFM000087	Lake Water	0,5 Surface		2002-09-02 07:30	4263	9,99	2,20	-0,5	0,6		17,5	21,0	9,8
PFM000087	Lake Water	1,5 Bottom		2002-09-02 07:30	4264	10,2	2,10	-0,5	-0,5		18,7	20,2	10,0
PFM000087	Lake Water	1,5 Bottom		2002-09-15 18:00	4279	10,5	2,00	-0,5	-0,5	0,333	17,9	17,7	10,4
PFM000087	Lake Water	0,5 Surface		2002-09-15 18:30	4278	10,5	1,50	-0,5	0,5	0,371	18,6	19,3	9,9
PFM000087	Lake Water	1,5 Bottom		2002-10-01 07:30	4295	10,0	2,90	-0,5	-0,5		8,3	8,99	12,7

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SICADA: biochemistry\_supplements, 020301-030301



Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000087	Lake Water	0,5 Surface		2002-10-01 07:30	4292	0,0113		0,00130		0,938	0,00860	0,0019	0,00337	0,0589
PFM000087	Lake Water	0,5 Surface		2002-11-12 08:00	4327	0,00637	0,00030	0,00326		0,992	0,00702	0,0013	0,00362	0,0450
PFM000087	Lake Water	1,5 Bottom		2002-11-12 08:00	4331	0,199	0,00039	0,00224		1,16	0,00784	0,0025	0,00382	0,0469
PFM000087	Lake Water	1,5 Bottom		2002-12-16 08:00	4409	0,0444	0,00427	0,03937		0,851	0,00816	0,0021	0,00528	0,0438
PFM000087	Lake Water	0,5 Surface		2002-12-16 08:00	4407	0,0204	0,00287	0,07320		0,837	0,00709	0,0017	0,00372	0,0224
PFM000087	Lake Water	1,5 Bottom		2003-01-15 07:30	4449	0,180	0,00140	0,02720		1,18	0,00900	0,0024	0,00550	0,0351
PFM000087	Lake Water	0,5 Surface		2003-01-15 07:30	4442	0,168	0,001	0,00590		1,23	0,0120	0,0027	0,00520	0,0444
PFM000087	Lake Water	1,5 Bottom		2003-02-18 07:30	4486	0,258		0,00390		1,25	0,0112	0,0014	0,00390	0,0358
PFM000087	Lake Water	0,5 Surface		2003-02-18 07:30	4485	0,0373		0,01040		0,990	0,0104	0,0010	0,00420	0,0324
PFM000097	Lake Water	0,5 Surface		2002-04-17 11:30	4056	0,0890		0,00160		0,712	0,0122	0,0012	0,00640	0,0333
PFM000097	Lake Water	0,5 Surface		2002-05-06 10:00	4073	0,0144		0,07650		0,795	0,0162	0,0047	0,00910	0,0476
PFM000097	Lake Water	0,5 Surface		2002-05-13 12:00	4099	0,00906	0,002	0,07470	-0,01	0,891	0,0196	0,0041	0,00838	0,0560
PFM000097	Lake Water	0,5 Surface		2002-05-27 10:00	4124	0,00822		0,00386		0,975	0,0176	0,0025	0,00646	0,0657
PFM000097	Lake Water	0,5 Surface		2002-06-10 10:15	4150	0,0161	0,002	0,00293	-0,01	1,24	0,0178	0,0029	0,00672	0,0552
PFM000097	Lake Water	0,5 Surface		2002-06-24 10:30	4181	0,00600	-0,001	0,00190	-0,01	1,28	0,0262	0,0033	0,00660	0,0703
PFM000097	Lake Water	0,5 Surface		2002-07-15 00:00	4205	0,0115		0,00128		1,13	0,0151	0,0026	0,00599	0,0473
PFM000097	Lake Water	0,5 Surface		2002-08-12 18:05	4245	0,00370		0,00140		1,12	0,0156	0,0015	0,00640	0,0539
PFM000097	Lake Water	0,5 Surface		2002-09-02 07:30	4260	0,00440		0,00420				0,0013	0,00560	
PFM000097	Lake Water	0,5 Surface		2002-09-16 18:00	4287	0,00610		0,00140		1,28	0,0133	0,0019	0,00410	0,0580
PFM000097	Lake Water	0,5 Surface		2002-09-30 07:30	4315	0,00510		0,00130		1,22	0,0129	0,0022	0,00427	0,0582
PFM000097	Lake Water	0,5 Surface		2002-12-17 07:30	4426	0,0382	0,00149	0,09183		1,36	0,00801	0,0013	0,00355	0,0331
PFM000097	Lake Water	0,5 Surface		2003-01-15 07:30	4452	0,293	0,00190	0,02410		1,46	0,0126	0,0009	0,00590	0,0504
PFM000097	Lake Water	0,5 Surface		2003-02-18 07:30	4499	0,204		0,03110		1,32	0,0121	0,0009	0,00480	0,0376
PFM000107	Lake Water	0,5 Surface		2002-04-01 09:30	4018	0,0210		0,05400		0,486	0,00600	0,0010	0,00300	0,0170
PFM000107	Lake Water	1,4 Bottom		2002-04-01 10:00	4019	0,206		0,02000		1,07	0,0120	0,0010	0,00500	0,0410
PFM000107	Lake Water	1,4 Bottom		2002-04-17 09:30	4059	0,183		0,00390		0,709	0,0117	0,0010	0,00410	0,0280
PFM000107	Lake Water	0,5 Surface		2002-04-17 09:30	4058	0,226		0,00770		0,696	0,0102	0,0019	0,00380	0,0308
PFM000107	Lake Water	1,5 Bottom		2002-05-06 12:00	4069	0,0214		0,05150		0,739	0,00850	0,0014	0,00420	0,0427
PFM000107	Lake Water	0,5 Surface		2002-05-06 12:00	4068	0,0108		0,02590		0,747	0,00870	0,0009	0,00420	0,0453
PFM000107	Lake Water	0,5 Surface		2002-05-13 12:00	4096	0,00938		0,00762		0,811	0,0143	0,0021	0,00511	0,0466
PFM000107	Lake Water	1,5 Bottom		2002-05-27 08:30	4122	0,00319		0,00168		0,899	0,0160	0,0015	0,00681	0,0761
PFM000107	Lake Water	0,5 Surface		2002-05-27 08:30	4121	0,00276	0,001	0,00233	-0,01	0,890	0,0159	0,0015	0,00696	0,0779
PFM000107	Lake Water	1,0 Bottom		2002-06-10 09:00	4152	0,00399		0,00277		0,984	0,0133	0,0028	0,00521	0,0533

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Idcode	Water type	Depth	Info.	Date - time	Sample no.	SiO2-Si	Chlorophyll a	Chlorophyll c	Pheopigment	POC	TOC	DOC	O2 diss
		m				mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
PFM000087	Lake Water	0,5 Surface		2002-10-01 07:30	4292	9,49	1,30	-0,5	1,3	0,599	18,0	18,0	12,6
PFM000087	Lake Water	0,5 Surface		2002-11-12 08:00	4327	9,60	2,50	-0,5	1,1	0,249	17,6	7,40	13,9
PFM000087	Lake Water	1,5 Bottom		2002-11-12 08:00	4331	9,59	2,10	-0,5	-0,5	0,286	17,4	18,0	9,8
PFM000087	Lake Water	1,5 Bottom		2002-12-16 08:00	4409	6,78	0,78	-0,5	0,64	0,277	16,5	13,2	1,6
PFM000087	Lake Water	0,5 Surface		2002-12-16 08:00	4407	5,39	-0,5	-0,5	-0,5	0,153	18,4	15,1	4,6
PFM000087	Lake Water	1,5 Bottom		2003-01-15 07:30	4449	8,83	0,70	0,6	1,8	0,240	16,8	22,2	0,5
PFM000087	Lake Water	0,5 Surface		2003-01-15 07:30	4442	9,33	0,50	-0,5	0,5	0,338	22,6	22,3	
PFM000087	Lake Water	1,5 Bottom		2003-02-18 07:30	4486	9,02	1,00	-0,5	1	0,226	17,2	21,6	-0,2
PFM000087	Lake Water	0,5 Surface		2003-02-18 07:30	4485	7,50	0,70	-0,5	-0,5	0,167	17,8	18,4	5,4
PFM000097	Lake Water	0,5 Surface		2002-04-17 11:30	4056	1,93	0,90	-0,5	-0,5	0,205	16,4	16,1	12,1
PFM000097	Lake Water	0,5 Surface		2002-05-06 10:00	4073	1,34	1,70	-0,5	1	0,328		12,0	9,9
PFM000097	Lake Water	0,5 Surface		2002-05-13 12:00	4099	0,671				0,365	17,2	16,8	9,6
PFM000097	Lake Water	0,5 Surface		2002-05-27 10:00	4124	0,231	1,94	-0,5	-0,5	0,318	18,3	16,2	10,9
PFM000097	Lake Water	0,5 Surface		2002-06-10 10:15	4150	0,434	1,23	-0,5	-0,5	0,397	24,0	21,0	10,6
PFM000097	Lake Water	0,5 Surface		2002-06-24 10:30	4181	0,639	6,10	-0,5	7,5	0,542	18,5	17,5	11,1
PFM000097	Lake Water	0,5 Surface		2002-07-15 00:00	4205	0,956	1,35	0,48	-0,5	0,397	18,0	17,5	9,5
PFM000097	Lake Water	0,5 Surface		2002-08-12 18:05	4245	1,36	2,50	-0,5	-0,5	0,459	20,1	20,0	13,6
PFM000097	Lake Water	0,5 Surface		2002-09-02 07:30	4260	0,277	1,90	-0,5	0,5		20,6	19,0	13,5
PFM000097	Lake Water	0,5 Surface		2002-09-16 18:00	4287	0,102	1,20	-0,5	-0,5		21,6	23,0	13,9
PFM000097	Lake Water	0,5 Surface		2002-09-30 07:30	4315	0,049	1,00	-0,5	0,9	0,332	20,1	19,8	14,8
PFM000097	Lake Water	0,5 Surface		2002-12-17 07:30	4426	1,99	0,57	-0,5	0,57	0,262	21,6	19,1	8,7
PFM000097	Lake Water	0,5 Surface		2003-01-15 07:30	4452	2,05	-0,5	-0,5	-0,5	0,403	17,6	22,8	0,8
PFM000097	Lake Water	0,5 Surface		2003-02-18 07:30	4499	3,40	-0,5	-0,5	-0,5	0,272	22,2	19,4	1,6
PFM000107	Lake Water	0,5 Surface		2002-04-01 09:30	4018	2,89	-0,5	-0,5	-0,5	0,090	8,70	6,30	4,7
PFM000107	Lake Water	1,4 Bottom		2002-04-01 10:00	4019	3,49	-0,5	-0,5	-0,5	0,307	17,9	17,5	2,7
PFM000107	Lake Water	1,4 Bottom		2002-04-17 09:30	4059	2,24	1,00	-0,5	-0,5	0,167	15,6	15,4	12,1
PFM000107	Lake Water	0,5 Surface		2002-04-17 09:30	4058	2,35	0,70	-0,5	0,5	0,201	14,8	15,9	12,5
PFM000107	Lake Water	1,5 Bottom		2002-05-06 12:00	4069	1,30	1,20	-0,5	1	0,265	14,3	14,7	10,7
PFM000107	Lake Water	0,5 Surface		2002-05-06 12:00	4068	0,781	1,50	-0,5	-0,5	0,287	12,5	12,0	10,7
PFM000107	Lake Water	0,5 Surface		2002-05-13 12:00	4096	0,783	0,97	-0,5	1,78	0,281	12,0	10,7	10,1
PFM000107	Lake Water	1,5 Bottom		2002-05-27 08:30	4122	0,397	2,81	0,61	0,55	0,340	17,5	8,60	10,9
PFM000107	Lake Water	0,5 Surface		2002-05-27 08:30	4121	0,416	3,44	0,64	0,53	0,371	13,6	15,5	11,3
PFM000107	Lake Water	1,0 Bottom		2002-06-10 09:00	4152	0,624	1,77	-0,5	-0,5	0,363	16,0	18,3	9,8

- = Not analysed  
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- "value" = result less than detection limit

SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000107	Lake Water	0,5	Surface	2002-06-10 09:00	4151	0,00577		0,00181		0,992	0,0138	0,0018	0,00590	0,0636
PFM000107	Lake Water	1,0	Bottom	2002-06-24 09:00	4179	0,00760		0,00160		1,03	0,0170	0,0014	0,00600	0,0709
PFM000107	Lake Water	0,5	Surface	2002-06-24 09:00	4178	0,00760		0,00180		1,01	0,0132	0,0013	0,00430	0,0678
PFM000107	Lake Water	1,0	Bottom	2002-07-15 00:00	4207	0,00497		0,00015		1,03	0,0131	0,0024	0,00504	0,0535
PFM000107	Lake Water	0,5	Surface	2002-07-15 00:00	4206	0,00326		0,00038		1,05	0,0139	0,0018	0,00602	0,0670
PFM000107	Lake Water	1,0	Bottom	2002-08-12 00:00	4234	0,00660		0,00190		1,06	0,0149	0,0016	0,00580	0,0702
PFM000107	Lake Water	0,5	Surface	2002-08-12 00:00	4233	0,00700		0,00370		1,08	0,0140	0,0014	0,00740	0,0806
PFM000107	Lake Water	0,5	Surface	2002-09-02 07:30	4261	0,00700		0,00060				0,0012	0,00950	
PFM000107	Lake Water	1,0	Bottom	2002-09-02 07:30	4262	0,00760		0,00050				0,0013	0,00890	
PFM000107	Lake Water	0,5	Surface	2002-09-16 18:00	4288	0,00560		0,00060		1,19	0,0169	0,0013	0,0103	0,161
PFM000107	Lake Water	1,0	Bottom	2002-09-16 18:00	4289	0,00670		0,00030		1,18	0,0158	0,0010	0,00850	0,126
PFM000107	Lake Water	0,5	Surface	2002-09-30 07:30	4302	0,0122		0,00150		1,13	0,0139	0,0014	0,00849	0,0969
PFM000107	Lake Water	1,0	Bottom	2002-09-30 07:30	4303	0,0126		0,00090		1,12	0,0127	0,0018	0,00652	0,118
PFM000107	Lake Water	0,5	Surface	2002-11-12 08:00	4328	0,0162	0,00030	0,00465		1,10	0,00909	0,0007	0,00431	0,0461
PFM000107	Lake Water	1,0	Bottom	2002-12-17 07:30	4421	0,227	0,00039	0,00361		1,76	0,00668	0,0005	0,00376	0,0323
PFM000107	Lake Water	0,5	Surface	2002-12-17 07:30	4420	0,038	0,00283	0,1313		1,30	0,00948	0,0030	0,00316	0,0113
PFM000107	Lake Water	0,5	Surface	2003-01-16 07:30	4444	0,181	0,00160	0,1570		1,08	0,00690	0,0020	0,00360	0,0237
PFM000107	Lake Water	1,0	Bottom	2003-01-16 07:30	4447	0,258	0,00240	0,1387		1,15	0,00740	0,0012	0,00430	0,0281
PFM000107	Lake Water	1,0	Bottom	2003-02-17 07:30	4488	0,277		0,01500		1,44	0,0128	0,0006	0,00350	0,0408
PFM000107	Lake Water	0,5	Surface	2003-02-17 07:30	4487	0,159		0,03270		1,19	0,0101	0,0005	0,00400	0,0301
PFM000117	Lake Water	0,5	Surface	2002-04-01 11:00	4020	0,068		0,05500		0,456	0,00800	0,0010	0,00600	0,0420
PFM000117	Lake Water	1,5	Bottom	2002-04-01 11:45	4021	0,486		0,02600		1,45	0,0100	0,0010	0,00500	0,0380
PFM000117	Lake Water	1,5	Bottom	2002-04-16 09:15	4049	2,13		0,01610		1,08	0,00950	0,0020	0,00510	0,0333
PFM000117	Lake Water	0,5	Surface	2002-04-16 09:15	4048	1,88		0,01410		1,08	0,00880	0,0019	0,00540	0,0336
PFM000117	Lake Water	1,5	Bottom	2002-05-05 14:40	4082	0,0387		0,02660		0,929	0,00910	0,0027	0,00890	0,0662
PFM000117	Lake Water	0,5	Surface	2002-05-05 14:40	4079	0,0370		0,02790		1,01	0,00940	0,0030	0,00290	0,0756
PFM000117	Lake Water	1,5	Bottom	2002-05-13 14:40	4103	0,00735		0,02400		0,958	0,00904	0,0014	0,00600	0,0706
PFM000117	Lake Water	0,5	Surface	2002-05-13 14:40	4102	0,00712		0,01310		0,979	0,0113	0,0026	0,00536	0,0841
PFM000117	Lake Water	1,5	Bottom	2002-05-28 08:50	4138	0,0125		0,00119		1,08	0,0107	0,0009	0,00469	0,0762
PFM000117	Lake Water	0,5	Surface	2002-05-28 08:50	4129	0,00719		0,00194		1,04	0,0120	0,0009	0,00440	0,0782
PFM000117	Lake Water	1,5	Bottom	2002-06-11 09:00	4154	0,0145		0,00253		1,13	0,0102	0,0025	0,00967	0,110
PFM000117	Lake Water	0,5	Surface	2002-06-11 09:00	4153	0,0106		0,00276		1,14	0,0115	0,0028	0,00360	0,110
PFM000117	Lake Water	1,5	Bottom	2002-06-25 08:25	4191	0,00730		0,00040		1,10	0,00890	-0,0005	0,00360	0,0742

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000107	Lake Water	0,5 Surface		2002-06-10 09:00	4151	0,619	2,69	-0,5	-0,5	0,396	9,36	11,1	10,2
PFM000107	Lake Water	1,0 Bottom		2002-06-24 09:00	4179	0,705	2,50	-0,5	-0,5	0,520	16,9	15,5	10,5
PFM000107	Lake Water	0,5 Surface		2002-06-24 09:00	4178	0,729	2,70	-0,5	-0,5	0,430	15,0	16,6	10,1
PFM000107	Lake Water	1,0 Bottom		2002-07-15 00:00	4207	0,994	2,14	-0,5	-0,5	0,459	18,3	17,6	10,3
PFM000107	Lake Water	0,5 Surface		2002-07-15 00:00	4206	0,990	2,57	-0,5	-0,5	0,532	17,6	17,4	10,9
PFM000107	Lake Water	1,0 Bottom		2002-08-12 00:00	4234	1,86	3,90	-0,5	-0,5	0,637	15,6	18,5	10,3
PFM000107	Lake Water	0,5 Surface		2002-08-12 00:00	4233	1,83	3,90	-0,5	-0,5	0,624	19,9	19,1	10,3
PFM000107	Lake Water	0,5 Surface		2002-09-02 07:30	4261	1,92	4,70	-0,5	-0,5		19,8	10,2	11,3
PFM000107	Lake Water	1,0 Bottom		2002-09-02 07:30	4262	1,94	5,30	-0,5	0,5		19,7	24,2	10,8
PFM000107	Lake Water	0,5 Surface		2002-09-16 18:00	4288	1,45	6,10	-0,5	1,3	1,27	16,4	16,4	11,1
PFM000107	Lake Water	1,0 Bottom		2002-09-16 18:00	4289	1,50	4,10	-0,5	4,4	1,15	16,2	20,2	11,3
PFM000107	Lake Water	0,5 Surface		2002-09-30 07:30	4302	0,885	3,30	-0,5	-0,5	0,738	24,0	24,1	12,3
PFM000107	Lake Water	1,0 Bottom		2002-09-30 07:30	4303	0,881	2,60	-0,5	-0,5	0,650	19,7	19,4	12,4
PFM000107	Lake Water	0,5 Surface		2002-11-12 08:00	4328	0,235	1,30	-0,5	-0,5	0,371	19,0	17,6	13,4
PFM000107	Lake Water	1,0 Bottom		2002-12-17 07:30	4421	0,541	-0,5	-0,5	-0,5	0,222	12,9	15,6	3,0
PFM000107	Lake Water	0,5 Surface		2002-12-17 07:30	4420	4,00	0,74	-0,5	0,47	0,257	23,2	23,7	7,9
PFM000107	Lake Water	0,5 Surface		2003-01-16 07:30	4444	1,28	-0,5	-0,5	-0,5	0,222	9,70	13,5	2,7
PFM000107	Lake Water	1,0 Bottom		2003-01-16 07:30	4447	2,00	0,5	-0,5	0,80	0,247	18,1	14,0	6,1
PFM000107	Lake Water	1,0 Bottom		2003-02-17 07:30	4488	3,28	-0,5	-0,5	-0,5	0,252	22,6	22,3	
PFM000107	Lake Water	0,5 Surface		2003-02-17 07:30	4487	4,99	-0,5	-0,5	-0,5	0,229	22,2	21,8	1,5
PFM000117	Lake Water	0,5 Surface		2002-04-01 11:00	4020	0,93	-0,5	-0,5	-0,5	0,278	6,50	5,90	4,4
PFM000117	Lake Water	1,5 Bottom		2002-04-01 11:45	4021	4,61	-0,5	-0,5	-0,5	0,242	16,0	16,0	3,9
PFM000117	Lake Water	1,5 Bottom		2002-04-16 09:15	4049	3,39	1,30	-0,5	1,80	0,279			11,6
PFM000117	Lake Water	0,5 Surface		2002-04-16 09:15	4048	3,36	1,60	-0,5	-0,5	0,252			11,4
PFM000117	Lake Water	1,5 Bottom		2002-05-05 14:40	4082	2,13	2,07	-0,5	-0,5	0,420	16,8	16,0	11,6
PFM000117	Lake Water	0,5 Surface		2002-05-05 14:40	4079	2,12	2,40	-0,5	-0,5	0,492	17,8	16,1	11,1
PFM000117	Lake Water	1,5 Bottom		2002-05-13 14:40	4103	0,38	2,80	-0,5	-0,5	0,429	18,2	8,3	11,5
PFM000117	Lake Water	0,5 Surface		2002-05-13 14:40	4102	1,48	3,57	-0,5	0,69	0,576	18,1	17,8	11,6
PFM000117	Lake Water	1,5 Bottom		2002-05-28 08:50	4138	1,26	1,80	-0,5	1,10	0,398	17,8	19,2	11,8
PFM000117	Lake Water	0,5 Surface		2002-05-28 08:50	4129	1,28	2,23	-0,5	-0,5	0,358	17,0	16,9	12,2
PFM000117	Lake Water	1,5 Bottom		2002-06-11 09:00	4154	1,41	2,51	-0,5	-0,5	0,703	15,0	19,6	11,2
PFM000117	Lake Water	0,5 Surface		2002-06-11 09:00	4153	1,37	3,49	0,55	0,91	0,799	15,5	18,9	11,0
PFM000117	Lake Water	1,5 Bottom		2002-06-25 08:25	4191	1,62	2,20	-0,5	0,50	0,628	16,9	17,6	10,8

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000117	Lake Water	0,5 Surface		2002-06-25 08:25	4190	0,00700		0,00180		1,16	0,0135	0,0005	0,00470	0,0932
PFM000117	Lake Water	1,5 Bottom		2002-07-16 00:00	4218	0,0132		0,00104		1,13	0,00796	0,0020	0,00375	0,0760
PFM000117	Lake Water	0,5 Surface		2002-07-16 00:00	4217	0,0118		0,00099		1,13	0,00830	0,0017	0,00403	0,0787
PFM000117	Lake Water	1,5 Bottom		2002-08-13 08:00	4236	0,0182		0,00140		1,17	0,00840	0,0014	0,00310	0,0568
PFM000117	Lake Water	0,5 Surface		2002-08-13 08:00	4235	0,0165		0,00200		1,16	0,00720	0,0018	0,00270	0,0604
PFM000117	Lake Water	0,5 Surface		2002-09-03 07:30	4265	0,0207		0,00100				0,0018	0,00390	
PFM000117	Lake Water	1,5 Bottom		2002-09-03 07:30	4266	0,0227		0,00070				0,0015	0,00470	
PFM000117	Lake Water	0,5 Surface		2002-09-17 18:00	4282	0,0326		0,00130		1,24	0,00900	0,0042	0,00310	0,0710
PFM000117	Lake Water	1,5 Bottom		2002-09-17 18:00	4283	0,0320		0,00070		1,20	0,00750	0,0012	0,00330	0,0590
PFM000117	Lake Water	1,5 Bottom		2002-10-01 07:30	4299	0,0502		0,00240		1,25	0,00990	0,0012	0,00518	
PFM000117	Lake Water	0,5 Surface		2002-10-01 07:30	4298	0,0520		0,00500		1,24	0,00770	0,0016		0,0704
PFM000117	Lake Water	1,5 Bottom		2002-12-17 07:30	4413	0,849	0,00114	0,01361		1,91	0,00851	0,0030	0,00323	0,0454
PFM000117	Lake Water	0,5 Surface		2002-12-17 07:30	4412	0,284	0,00102	0,04983		1,53	0,00712	0,0019	0,00284	0,0477
PFM000117	Lake Water	0,5 Surface		2003-01-15 07:30	4440	0,465	0,00130	0,06930		1,94	0,00740	0,0023	0,00320	0,0380
PFM000117	Lake Water	1,5 Bottom		2003-01-15 07:30	4451	0,759	0,00210	0,02800		2,05	0,00690	0,0010	0,00290	0,0472
PFM000117	Lake Water	1,5 Bottom		2003-02-18 07:30	4492	0,795		0,01400		2,16	0,0121	0,0009	0,00400	0,0434
PFM000117	Lake Water	0,5 Surface		2003-02-18 07:30	4491	0,708		0,02980		1,76	0,0116	0,0014	0,00340	0,0355
PFM000127	Lake Water	1,0 Bottom		2002-05-27 17:00	4133	0,00778		0,00128		1,07	0,0176	0,0023	0,00536	0,0722
PFM000127	Lake Water	0,5 Surface		2002-05-27 17:00	4132	0,00786	-0,001	0,00209	-0,01	1,09	0,0173	0,0032	0,00743	0,0733
PFM000127	Lake Water	1,0 Bottom		2002-06-10 20:08	4164	0,00676		0,00190		1,41	0,0236	0,0019	0,0128	0,159
PFM000127	Lake Water	0,5 Surface		2002-06-10 20:08	4163	0,00499	0,001	0,00188	-0,01	1,45	0,0246	0,0019	0,0126	0,156
PFM000127	Lake Water	1,0 Bottom		2002-06-24 20:20	4177	0,00840		0,00360		1,37	0,0211	0,0017	0,0128	0,207
PFM000127	Lake Water	0,5 Surface		2002-06-24 20:20	4162	0,0116		0,00170		1,36	0,0210	0,0019	0,0132	0,209
PFM000127	Lake Water	1,0 Bottom		2002-07-15 00:00	4216	0,0102		0,00103		1,41	0,0185	0,0032	0,0108	0,151
PFM000127	Lake Water	0,5 Surface		2002-07-15 00:00	4215	0,0132		0,00086		1,45	0,0195	0,0030	0,0115	0,174
PFM000127	Lake Water	1,0 Bottom		2002-08-12 19:40	4241	0,00770		0,00160		1,52	0,0209	0,0019	0,0115	0,142
PFM000127	Lake Water	0,5 Surface		2002-08-12 19:40	4232	0,00800	0,002	-0,01000	-0,01	1,51	0,0204	0,0016	0,0130	0,214
PFM000127	Lake Water	0,5 Surface		2002-09-01 17:00	4247	0,0196		0,00060				0,0019	0,0131	
PFM000127	Lake Water	1,1 Bottom		2002-09-01 17:00	4248	0,0241	0,002	0,00060	-0,01		0,0300	0,0018	0,0141	
PFM000127	Lake Water	0,5 Surface		2002-09-16 18:00	4290	0,0475		0,00170		2,01	0,0271	0,0036	0,0175	0,257
PFM000127	Lake Water	1,0 Bottom		2002-09-16 18:00	4291	0,0354		0,00030		2,00	0,0255	0,0028	0,0154	0,259
PFM000127	Lake Water	1,0 Bottom		2002-09-30 07:30	4297	0,1476		0,00390		1,92	0,0224	0,0020	0,0106	0,133
PFM000127	Lake Water	0,5 Surface		2002-09-30 07:30	4296	0,1316		0,00250		1,93	0,0213	0,0020	0,0111	0,123

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Idcode	Water type	Depth	Info.	Date - time	Sample no.	SiO2-Si	Chlorophyll a	Chlorophyll c	Pheopigment	POC	TOC	DOC	O2 diss
		m				mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
PFM000117	Lake Water	0,5 Surface		2002-06-25 08:25	4190	1,62	1,50	-0,5	0,9	0,635	18,8	18,7	10,3
PFM000117	Lake Water	1,5 Bottom		2002-07-16 00:00	4218	1,89	3,47	0,5	-0,5	0,692	18,7	17,9	10,0
PFM000117	Lake Water	0,5 Surface		2002-07-16 00:00	4217	1,94	3,74	0,52	-0,5	0,701	19,6	17,7	10,2
PFM000117	Lake Water	1,5 Bottom		2002-08-13 08:00	4236	2,58	2,60	-0,5	0,7	0,451	19,2	18,4	9,6
PFM000117	Lake Water	0,5 Surface		2002-08-13 08:00	4235	2,59	2,30	-0,5	-0,5	0,514	18,8	18,6	9,9
PFM000117	Lake Water	0,5 Surface		2002-09-03 07:30	4265	3,35	1,90	-0,5	-0,5		19,4	19,5	9,3
PFM000117	Lake Water	1,5 Bottom		2002-09-03 07:30	4266	3,32	1,40	-0,5	1,10		19,2	16,3	9,9
PFM000117	Lake Water	0,5 Surface		2002-09-17 18:00	4282	3,35	2,40	-0,5	-0,5	0,564	19,6	18,2	10,2
PFM000117	Lake Water	1,5 Bottom		2002-09-17 18:00	4283	3,28	2,30	-0,5	-0,5	0,548	19,2	11,1	10,2
PFM000117	Lake Water	1,5 Bottom		2002-10-01 07:30	4299	3,02	0,60	-0,5	-0,5		19,4	19,7	10,6
PFM000117	Lake Water	0,5 Surface		2002-10-01 07:30	4298	3,05	1,10	-0,5	-0,5	0,488	20,0	19,4	11,5
PFM000117	Lake Water	1,5 Bottom		2002-12-17 07:30	4413	3,26	0,52	-0,5	0,59	0,382	19,3	18,2	2,8
PFM000117	Lake Water	0,5 Surface		2002-12-17 07:30	4412	2,94	1,53	-0,5	0,91	0,496	19,1	20,4	14,0
PFM000117	Lake Water	0,5 Surface		2003-01-15 07:30	4440	3,54	1,10	-0,5	-0,5	0,430	20,4	20,7	10,8
PFM000117	Lake Water	1,5 Bottom		2003-01-15 07:30	4451	3,71	-0,5	-0,5	0,5	0,411	20,1	21,6	4,2
PFM000117	Lake Water	1,5 Bottom		2003-02-18 07:30	4492	3,87	-0,5	-0,5	0,5	0,343	20,4	22,1	0,7
PFM000117	Lake Water	0,5 Surface		2003-02-18 07:30	4491	3,97	-0,5	-0,5	-0,5	0,222	22,8	22,6	0,8
PFM000127	Lake Water	1,0 Bottom		2002-05-27 17:00	4133	0,155	1,46	-0,5	-0,5	0,339	15,6	17,1	14,0
PFM000127	Lake Water	0,5 Surface		2002-05-27 17:00	4132	0,156	1,07	-0,5	-0,5	0,327	15,9	12,3	13,6
PFM000127	Lake Water	1,0 Bottom		2002-06-10 20:08	4164	0,866	3,33	-0,5	0,65	1,13	11,3	7,51	13,0
PFM000127	Lake Water	0,5 Surface		2002-06-10 20:08	4163	0,728	3,01	-0,5	0,81	1,10	22,0	19,0	12,9
PFM000127	Lake Water	1,0 Bottom		2002-06-24 20:20	4177	1,08	3,60	-0,5	-0,5	1,25	16,1	17,1	11,8
PFM000127	Lake Water	0,5 Surface		2002-06-24 20:20	4162	1,05	3,00	-0,5	-0,5	1,29	14,0	16,4	11,3
PFM000127	Lake Water	1,0 Bottom		2002-07-15 00:00	4216	1,23	4,35	-0,5	1,08	1,47	17,8	16,5	11,1
PFM000127	Lake Water	0,5 Surface		2002-07-15 00:00	4215	1,24	6,02	-0,5	1,27	1,61	18,1	16,3	11,4
PFM000127	Lake Water	1,0 Bottom		2002-08-12 19:40	4241	2,16	7,30	-0,5	1,50	1,15	19,0	15,2	12,3
PFM000127	Lake Water	0,5 Surface		2002-08-12 19:40	4232	2,12	7,10	-0,5	-0,5	1,80	18,3	17,4	12,2
PFM000127	Lake Water	0,5 Surface		2002-09-01 17:00	4247	2,93	14,3	1,00	-0,5		20,5	18,2	12,3
PFM000127	Lake Water	1,1 Bottom		2002-09-01 17:00	4248	2,91	10,5	-0,5	2,40		20,6	19,9	12,4
PFM000127	Lake Water	0,5 Surface		2002-09-16 18:00	4290	2,09	13,9	-0,5	-0,5	2,54	23,0	22,0	12,3
PFM000127	Lake Water	1,0 Bottom		2002-09-16 18:00	4291	2,07	11,9	-0,5	-0,5	2,56	22,9	22,9	11,5
PFM000127	Lake Water	1,0 Bottom		2002-09-30 07:30	4297	1,06	1,30	-0,5	-0,5	1,18	21,7	19,3	12,3
PFM000127	Lake Water	0,5 Surface		2002-09-30 07:30	4296	1,04	2,80	-0,5	-0,5	1,14	17,4	17,7	12,7

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000135	Lake Water	0,5	Surface	2002-03-19 15:30	4006	0,0460		0,04400		0,984	0,0200	0,0010	0,0110	0,0880
PFM000135	Lake Water	0,5	Surface	2002-12-17 07:30	4414	1,232	0,00437	0,26065		3,20	0,0156	0,00187	0,00651	0,0677
PFM000135	Lake Water	0,5	Surface	2003-01-15 07:30	4443	1,410	0,00040	0,00710		3,71	0,0190	0,0036	0,0114	0,0860
AFM000010	Lake Water		Merged	2002-03-18 12:45	4008	0,721		0,02900		1,76	0,0110	0,0010		
AFM000050	Lake Water		Merged	2002-03-19 09:40	4002	0,224		0,04000		1,10	0,0110	-0,0010	0,0570	0,0560
AFM000073	Lake Water		Merged	2002-03-19 19:30	4004	-0,010		0,02800		0,839	0,0180	0,0020	0,0740	0,0670
AFM000074	Lake Water		Merged	2002-03-19 12:18	4001	0,0750		0,03100		0,992	0,0130	-0,0010	0,00700	0,0890
AFM000151	Lake Water		Merged	2002-03-20 10:00	4003	0,00600		0,02700		0,581	0,00800	-0,0010	0,0340	0,0310
PFM000151	Lake Water	0,5	Surface	2002-04-02 12:40	4033	0,00700		0,00600		0,332	0,00600	0,0010	0,00400	0,0280
PFM000151	Lake Water	0,5	Surface	2002-04-16 16:31	4052	0,0410		0,00270		0,535	0,00690	0,0014	0,00290	0,0112
PFM000151	Lake Water	0,5	Surface	2002-05-12 19:00	4090	0,00287	0,002	0,02660	-0,01	0,727	0,00995	0,0015	0,00431	0,0331
PFM000151	Lake Water	0,5	Surface	2002-05-26 12:00	4111	0,00301		0,00337		0,879	0,0168	0,0023	0,00859	0,0754
PFM000062	Sea Water	3,0	Bottom	2002-05-07 08:51	4081	0,00215	-0,001	0,01500	-0,01	0,269	0,0134	0,0010	0,00671	0,0483
PFM000062	Sea Water	0,5	Surface	2002-05-07 08:51	4076	0,00215		0,11300		0,273	0,0125	0,0009	0,00667	0,0397
PFM000062	Sea Water	0,5	Surface	2002-05-14 07:30	4110	0,00071		0,00809		0,266	0,00759	0,0005	0,00464	0,0457
PFM000062	Sea Water	3,5	Bottom	2002-05-14 07:30	4109	0,00076		0,00612		0,277	0,00776	0,0005	0,00344	0,0344
PFM000062	Sea Water	0,5	Surface	2002-05-27 13:49	4120	0,00121	-0,001	0,00077	-0,01	0,248	0,00939	-0,00050	0,00401	0,0387
PFM000062	Sea Water	3,0	Bottom	2002-05-27 13:49	4127	0,00102		0,00087		0,244	0,00916	-0,00050	0,00304	0,0296
PFM000062	Sea Water	3,0	Bottom	2002-06-10 13:00	4146	0,00036		0,00046		0,238	0,00928	0,0005	0,00406	0,0287
PFM000062	Sea Water	0,5	Surface	2002-06-10 13:00	4145	0,00046		0,00112		0,238	0,00821	0,0011		0,0306
PFM000062	Sea Water	3,0	Bottom	2002-06-24 13:50	4185	0,00130		0,00030		0,260	0,0112	0,0010	0,00630	0,0741
PFM000062	Sea Water	0,5	Surface	2002-06-24 13:50	4184	0,00120		0,00030		0,253	0,0105	0,0008	0,00560	0,0385
PFM000062	Sea Water	3,0	Bottom	2002-07-15 13:15	4199	0,00169		0,00049		0,268	0,00873	0,0010	0,00498	0,0380
PFM000062	Sea Water	0,5	Surface	2002-07-15 13:15	4198	0,00145		0,00032		0,230	0,00792	0,0009	0,00439	0,0280
PFM000062	Sea Water	3,0	Bottom	2002-08-12 09:04	4230	0,00280		0,00100		0,247	0,0114	0,0010	0,00670	0,0351
PFM000062	Sea Water	0,5	Surface	2002-08-12 09:04	4229	0,00190		0,00080		0,250	0,0104	0,0008	0,00550	0,0341
PFM000062	Sea Water	0,5	Surface	2002-09-02 07:30	4253	0,00170		0,00070				0,0009	0,00560	
PFM000062	Sea Water	3,0	Bottom	2002-09-02 07:30	4254	0,00200		0,00040				0,0014	0,00760	
PFM000062	Sea Water	0,5	Surface	2002-09-16 18:00	4280	0,00290		0,00130		0,257	0,0119	0,0010	0,00770	0,0600
PFM000062	Sea Water	3,0	Bottom	2002-09-16 18:00	4281	0,00300		0,00130		0,262	0,0123	0,0009	0,00790	0,0510
PFM000062	Sea Water	0,5	Surface	2002-09-30 07:30	4306	0,00470		0,00300		0,280	0,0133	0,0015	0,00648	0,0525
PFM000062	Sea Water	3,0	Bottom	2002-09-30 07:30	4307	0,00300		0,00130		0,251	0,0103	0,0012	0,00575	0,0466

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000135	Lake Water	0,5	Surface	2002-03-19 15:30	4006	6,04	-0,5	-0,5	-0,5	0,712	16,0	17,0	
PFM000135	Lake Water	0,5	Surface	2002-12-17 07:30	4414	1,25	13,6	1,90	10,1	0,533	17,0	17,4	2,2
PFM000135	Lake Water	0,5	Surface	2003-01-15 07:30	4443	2,09	0,50	-0,5	-0,5	0,745	23,8	23,1	
AFM000010	Lake Water		Merged	2002-03-18 12:45	4008	4,89	0,70	-0,5	-0,5		23,0	21,0	
AFM000050	Lake Water		Merged	2002-03-19 09:40	4002	4,16	-0,5	-0,5	-0,5	0,436	18,0	18,0	
AFM000073	Lake Water		Merged	2002-03-19 19:30	4004	5,59	2,50	-0,5	-0,5	0,393	13,0	14,0	
AFM000074	Lake Water		Merged	2002-03-19 12:18	4001	4,43	0,50	-0,5	-0,5	0,697	19,0	19,0	
AFM000151	Lake Water		Merged	2002-03-20 10:00	4003	4,40	1,10	-0,5	-0,5	0,193	10,0	11,0	
PFM000151	Lake Water	0,5	Surface	2002-04-02 12:40	4033	2,16	4,40	0,70	-0,5	0,222	7,30	7,10	5,5
PFM000151	Lake Water	0,5	Surface	2002-04-16 16:31	4052	3,87	-0,5	-0,5	-0,5	0,097	10,0	12,0	7,6
PFM000151	Lake Water	0,5	Surface	2002-05-12 19:00	4090	2,88	0,85	-0,5	1,01	0,219	11,0	12,0	8,6
PFM000151	Lake Water	0,5	Surface	2002-05-26 12:00	4111	3,70	4,00	0,61	0,90	0,609	19,0	17,2	10,2
PFM000062	Sea Water	3,0	Bottom	2002-05-07 08:51	4081	0,132	4,30	0,7	0,80	0,314	3,70	1,80	13,3
PFM000062	Sea Water	0,5	Surface	2002-05-07 08:51	4076	2,08	5,20	0,8	0,60	0,261	2,40	1,90	13,4
PFM000062	Sea Water	0,5	Surface	2002-05-14 07:30	4110	0,248	1,20	-0,5	1,07	0,350	1,83	1,62	15,7
PFM000062	Sea Water	3,5	Bottom	2002-05-14 07:30	4109	0,268	1,02	-0,5	-0,5	0,318	1,86	1,09	14,9
PFM000062	Sea Water	0,5	Surface	2002-05-27 13:49	4120	0,098	2,24	-0,5	-0,5	0,140	3,50	2,64	13,4
PFM000062	Sea Water	3,0	Bottom	2002-05-27 13:49	4127	0,132	1,16	-0,5	-0,5	0,143	4,19	1,67	12,6
PFM000062	Sea Water	3,0	Bottom	2002-06-10 13:00	4146	0,140	0,68	-0,5	-0,5	0,159	2,39	2,25	11,7
PFM000062	Sea Water	0,5	Surface	2002-06-10 13:00	4145	0,177	-0,5	-0,5	1,26	0,162	2,55	2,24	11,5
PFM000062	Sea Water	3,0	Bottom	2002-06-24 13:50	4185	0,260	1,50	-0,5	0,90	0,504	4,10	2,70	11,0
PFM000062	Sea Water	0,5	Surface	2002-06-24 13:50	4184	0,262	1,60	-0,5	-0,5	0,331	4,10	2,70	10,9
PFM000062	Sea Water	3,0	Bottom	2002-07-15 13:15	4199	0,313	1,29	-0,5	-0,5	0,286	4,40	4,10	10,5
PFM000062	Sea Water	0,5	Surface	2002-07-15 13:15	4198	0,283	1,03	-0,5	-0,5	0,218	4,09	2,89	10,6
PFM000062	Sea Water	3,0	Bottom	2002-08-12 09:04	4230	0,300	1,40	-0,5	-0,5	0,215	1,30	2,10	9,5
PFM000062	Sea Water	0,5	Surface	2002-08-12 09:04	4229	0,500	2,50	-0,5	-0,5	0,174	2,80	2,10	9,6
PFM000062	Sea Water	0,5	Surface	2002-09-02 07:30	4253	0,450	1,50	-0,5	-0,5		3,30	3,90	9,7
PFM000062	Sea Water	3,0	Bottom	2002-09-02 07:30	4254	0,304	1,50	-0,5	-0,5		3,90	2,30	9,6
PFM000062	Sea Water	0,5	Surface	2002-09-16 18:00	4280	0,438	2,70	-0,5	-0,5	0,368	3,90	3,90	10,8
PFM000062	Sea Water	3,0	Bottom	2002-09-16 18:00	4281	0,433	2,70	-0,5	-0,5		3,90	3,90	9,9
PFM000062	Sea Water	0,5	Surface	2002-09-30 07:30	4306	0,349	2,30	-0,5	-0,5	0,395	3,50	3,90	10,5
PFM000062	Sea Water	3,0	Bottom	2002-09-30 07:30	4307	0,326	2,20	-0,5	-0,5	0,321	3,40	3,10	10,3

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000062	Sea Water	0,5 Surface		2002-10-21 13:00	4333	0,00723		0,00725		0,001	0,0103	0,0015	0,0457	0,545
PFM000062	Sea Water	3,0 Bottom		2002-10-21 13:00	4322	0,00717		0,01356		0,001	0,0110	0,0014	0,0342	0,308
PFM000062	Sea Water	3,0 Bottom		2002-11-11 08:00	4360	0,00467	0,00156	0,01183		0,250	0,00936	0,0011	0,00541	0,0328
PFM000062	Sea Water	0,5 Surface		2002-11-11 08:00	4359	0,00388	0,00104	0,00601		0,253	0,0101	0,0008	0,00506	0,0363
PFM000062	Sea Water	3,0 Bottom		2002-11-25 08:00	4383	0,00654	0,00151	0,01923		0,269	0,0103	0,0023		0,0197
PFM000062	Sea Water	0,5 Surface		2002-11-25 08:00	4382	0,00739	0,00260	0,02133		0,356	0,0110	0,0023	0,00421	0,0232
PFM000062	Sea Water	0,5 Surface		2002-12-16 08:00	4418	0,00429	0,00302	0,04571		0,638	0,0107	0,0041	0,00337	
PFM000062	Sea Water	3,0 Bottom		2002-12-16 08:00	4419	0,00412	0,00288	0,04419		0,305	0,0120	0,0041	0,00557	0,0310
PFM000063	Sea Water	0,5 Surface		2002-05-07 12:00	4083	0,00184		0,02930		0,297	0,0144	0,0014	0,0101	0,0669
PFM000063	Sea Water	4,5 Bottom		2002-05-07 12:00	4084	0,00165	-0,001	0,12370	-0,01	0,326	0,0185	0,0013	0,0125	0,0624
PFM000063	Sea Water	0,5 Surface		2002-05-14 08:00	4105	0,00007		0,09280		0,305	0,0152	0,0009	0,00855	0,0656
PFM000063	Sea Water	4,5 Bottom		2002-05-14 08:00	4106	0,00052		0,00227		0,304	0,0167	0,0012	0,00966	0,0758
PFM000063	Sea Water	4,5 Bottom		2002-05-27 14:30	4131	0,00080		0,00044		0,302	0,0202	-0,0005	0,0118	0,0740
PFM000063	Sea Water	0,5 Surface		2002-05-27 14:30	4130	0,00078		0,00103		0,289	0,0147	0,0006	0,00756	0,0653
PFM000063	Sea Water	4,5 Surface		2002-06-10 14:15	4156	0,00082		0,00274		0,321	0,0228	0,0027		0,0711
PFM000063	Sea Water	0,5 Bottom		2002-06-10 14:15	4155	0,00026		0,00101		0,313	0,0165	0,0010		0,0669
PFM000063	Sea Water	4,5 Bottom		2002-06-24 14:42	4183	0,00140	-0,001	0,00070	-0,01	0,325	0,0216	0,0020	0,0125	0,0679
PFM000063	Sea Water	0,5 Surface		2002-06-24 14:42	4182	0,00120		0,00070		0,313	0,0173	0,0016	0,00800	0,0519
PFM000063	Sea Water	4,5 Bottom		2002-07-15 14:20	4195	0,00146		0,00104		0,309	0,0191	0,0016	0,00808	0,0438
PFM000063	Sea Water	0,5 Surface		2002-07-15 14:20	4194	0,00224		0,00034		0,315	0,0145	0,0014	0,00765	0,0461
PFM000063	Sea Water	4,5 Bottom		2002-08-12 10:30	4228	0,00880		0,00030		0,342	0,0232	0,0021	0,0147	0,0883
PFM000063	Sea Water	0,5 Surface		2002-08-12 10:30	4227	0,00260		0,00060		0,326	0,0182	0,0009	0,00910	0,0611
PFM000063	Sea Water	0,5 Surface		2002-09-02 07:30	4257	0,00220		0,00110				0,0016	0,0191	
PFM000063	Sea Water	4,5 Bottom		2002-09-02 07:30	4258	0,00210		0,00060				0,0024	0,0170	
PFM000063	Sea Water	0,5 Surface		2002-09-16 18:00	4274	0,00250		0,00100		0,317	0,0174	0,0009	0,0119	0,0860
PFM000063	Sea Water	4,5 Bottom		2002-09-16 18:00	4275	0,00340		0,00110		0,327	0,0183	0,0018	0,0122	0,0850
PFM000063	Sea Water	4,5 Bottom		2002-09-30 07:30	4305	0,00400		0,00090		0,270	0,0100	0,0014	0,00807	0,0559
PFM000063	Sea Water	0,5 Surface		2002-09-30 07:30	4304	0,00290		0,00070		0,276	0,0128	0,0014	0,00785	0,0688
PFM000063	Sea Water	0,5 Surface		2002-10-21 13:00	4324	0,01034		0,00738		-0,010	0,0124	0,0013	0,0463	0,286
PFM000063	Sea Water	4,5 Bottom		2002-10-21 13:00	4321	0,01000		0,00740		0,085	0,0129	0,0013	0,0565	0,287
PFM000063	Sea Water	0,5 Surface		2002-11-11 08:00	4358	0,00654	0,00110	0,00634		0,290	0,0128	0,0009	0,00830	0,0498
PFM000063	Sea Water	4,5 Bottom		2002-11-11 08:00	4357	0,00817	0,00118	0,00876		0,292	0,0133	0,0005	0,00705	0,0481
PFM000063	Sea Water	4,5 Bottom		2002-11-25 08:00	4381	0,01480	0,00142	0,02232		0,274	0,0101	0,0022	0,00417	0,0201

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000062	Sea Water	0,5 Surface		2002-10-21 13:00	4333	0,269	8,71	1,67	-0,5	0,481	4,72	3,03	11,6
PFM000062	Sea Water	3,0 Bottom		2002-10-21 13:00	4322	0,267	12,2	1,87	-0,5	0,412	4,04	3,84	11,6
PFM000062	Sea Water	3,0 Bottom		2002-11-11 08:00	4360	0,453	2,70	-0,5	-0,5	0,187	3,40	3,60	11,8
PFM000062	Sea Water	0,5 Surface		2002-11-11 08:00	4359	0,321	2,70	-0,5	-0,5	0,198	3,70	3,40	11,9
PFM000062	Sea Water	3,0 Bottom		2002-11-25 08:00	4383	0,477	1,99	-0,5	-0,5	0,177	1,35	3,88	13,0
PFM000062	Sea Water	0,5 Surface		2002-11-25 08:00	4382	0,523	1,62	-0,5	1,15	0,193	1,76	3,52	12,9
PFM000062	Sea Water	0,5 Surface		2002-12-16 08:00	4418	0,511	1,23	-0,5	0,75		3,72	2,98	13,4
PFM000062	Sea Water	3,0 Bottom		2002-12-16 08:00	4419	0,554	1,34	-0,5	1,12	0,257	3,52		13,9
PFM000063	Sea Water	0,5 Surface		2002-05-07 12:00	4083	0,117	4,50	0,6	0,70	0,489	3,20	2,10	12,1
PFM000063	Sea Water	4,5 Bottom		2002-05-07 12:00	4084	1,06	6,70	0,8	2,90	0,393	3,40	2,50	11,9
PFM000063	Sea Water	0,5 Surface		2002-05-14 08:00	4105	0,141	1,82	-0,5	-0,5	0,463	1,49	1,73	12,4
PFM000063	Sea Water	4,5 Bottom		2002-05-14 08:00	4106	0,211	1,41	-0,5	1,64	0,531	1,37	1,72	13,8
PFM000063	Sea Water	4,5 Bottom		2002-05-27 14:30	4131	0,155	2,58	-0,5	-0,5	0,306	1,77	3,66	12,1
PFM000063	Sea Water	0,5 Surface		2002-05-27 14:30	4130	0,127	1,73	-0,5	-0,5	0,216	1,66	2,29	11,8
PFM000063	Sea Water	4,5 Surface		2002-06-10 14:15	4156	0,338	1,90	-0,5	0,78	0,383	17,7	5,99	11,2
PFM000063	Sea Water	0,5 Bottom		2002-06-10 14:15	4155	0,242	1,16	-0,5	-0,5	0,296	16,5	12,91	10,9
PFM000063	Sea Water	4,5 Bottom		2002-06-24 14:42	4183	0,385	2,20	-0,5	-0,5	0,374	4,90	4,90	9,7
PFM000063	Sea Water	0,5 Surface		2002-06-24 14:42	4182	0,323	2,10	-0,5	0,80	0,267	4,50	4,50	10,6
PFM000063	Sea Water	4,5 Bottom		2002-07-15 14:20	4195	0,497	2,93	-0,5	-0,5	0,297	4,09	4,08	9,6
PFM000063	Sea Water	0,5 Surface		2002-07-15 14:20	4194	0,343	2,42	-0,5	-0,5	0,289	4,60	4,20	10,1
PFM000063	Sea Water	4,5 Bottom		2002-08-12 10:30	4228	1,56	5,00	0,5	2,00	0,485	4,30	4,30	3,3
PFM000063	Sea Water	0,5 Surface		2002-08-12 10:30	4227	0,460	3,00	-0,5	-0,5	0,322	4,40	3,90	10,3
PFM000063	Sea Water	0,5 Surface		2002-09-02 07:30	4257	0,608	5,90	0,50	0,70		4,13	4,14	9,3
PFM000063	Sea Water	4,5 Bottom		2002-09-02 07:30	4258	0,589	7,20	0,70	0,90		5,00	4,30	8,2
PFM000063	Sea Water	0,5 Surface		2002-09-16 18:00	4274	0,514	4,20	-0,5	-0,5	0,529	3,60	2,80	10,1
PFM000063	Sea Water	4,5 Bottom		2002-09-16 18:00	4275	0,472	4,10	-0,5	-0,5	0,498	3,80	1,60	10,7
PFM000063	Sea Water	4,5 Bottom		2002-09-30 07:30	4305	0,386	2,50	-0,5	-0,5	0,373	2,50	2,40	11,3
PFM000063	Sea Water	0,5 Surface		2002-09-30 07:30	4304	0,387	2,50	-0,5	-0,5	0,442	2,30	2,40	10,8
PFM000063	Sea Water	0,5 Surface		2002-10-21 13:00	4324	0,278	11,0	2,97	-0,5	0,432	6,70	2,22	13,6
PFM000063	Sea Water	4,5 Bottom		2002-10-21 13:00	4321	0,285	12,8	3,26	0,50	0,426	4,30	4,10	12,5
PFM000063	Sea Water	0,5 Surface		2002-11-11 08:00	4358	0,271	2,60	-0,5	1,10	0,295	3,80	2,40	13,4
PFM000063	Sea Water	4,5 Bottom		2002-11-11 08:00	4357	0,359	3,30	-0,5	-0,5	0,273	3,60	2,30	13,0
PFM000063	Sea Water	4,5 Bottom		2002-11-25 08:00	4381	0,473	1,84	-0,5	0,80	0,162	2,69	3,89	12,9

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000063	Sea Water	0,5	Surface	2002-11-25 08:00	4380	0,01457	0,00191	0,02226	0,296	0,0118	0,0027	0,00400	0,0245	
PFM000063	Sea Water	0,5	Surface	2002-12-16 08:00	4410	0,01794	0,00414	0,04664	0,410	0,0103	0,0028	0,0028	0,0233	
PFM000063	Sea Water	4,3	Bottom	2002-12-16 08:00	4411	0,03210	0,00340	0,03031	0,326	0,0123	0,0038	0,00512	0,0279	
PFM000063	Sea Water	1,0	Bottom	2003-01-14 07:30	4450	0,05200	0,00340	0,08160	0,385	0,0100	0,0045	0,00340	0,0194	
PFM000063	Sea Water	0,5	Surface	2003-01-14 07:30	4445	0,02270	0,00390	0,07960	0,393	0,00920	0,0046	0,00140	0,0140	
PFM000063	Sea Water	4,5	Bottom	2003-02-17 07:30	4494	0,0613		0,12960	0,570	0,0132	0,0047	0,00290	0,0158	
PFM000063	Sea Water	0,5	Surface	2003-02-17 07:30	4493	0,0704		0,57470	1,22	0,0236	0,0080	0,00740	0,0226	
PFM000064	Sea Water	0,5	Surface	2002-05-07 12:00	4085	0,00409		0,00584	0,714	0,0255	0,0025	0,0144	0,105	
PFM000064	Sea Water	1,5	Bottom	2002-05-07 12:00	4087	0,00188		0,01740	0,486	0,0237	0,0012	0,0156	0,105	
PFM000064	Sea Water	0,5	Surface	2002-05-14 11:15	4107	0,00147		0,00373	0,582	0,0240	0,0010	0,0143	0,116	
PFM000064	Sea Water	1,5	Bottom	2002-05-14 11:15	4108	0,0109	-0,001	0,00194	0,428	0,0252	0,0010	0,0180	0,136	
PFM000064	Sea Water	1,5	Bottom	2002-05-27 16:00	4126	0,00169		0,00140	0,607	0,0510	-0,0005	0,0341	0,194	
PFM000064	Sea Water	0,5	Surface	2002-05-27 16:00	4125	0,00173		0,00068	0,490	0,0294	-0,0005	0,0198	0,134	
PFM000064	Sea Water	0,5	Surface	2002-06-10 15:20	4157	0,00147	0,002	0,00119	0,724	0,0593	0,0012		0,0759	
PFM000064	Sea Water	1,0	Bottom	2002-06-10 15:20	4158	0,00141		0,00188	0,447	0,0256	0,0019		0,0689	
PFM000064	Sea Water	1,0	Bottom	2002-06-24 15:30	4187	0,00160		0,00530	0,444	0,0246	0,0018	0,0181	0,116	
PFM000064	Sea Water	0,5	Surface	2002-06-24 15:30	4186	0,00170	-0,001	0,00100	0,458	0,0234	0,0025	0,0148	0,0728	
PFM000064	Sea Water	0,5	Surface	2002-07-15 00:00	4196	0,00227		0,00023	0,483	0,0214	0,0021	0,0114	0,0572	
PFM000064	Sea Water	1,0	Bottom	2002-07-15 00:00	4197	0,00255		0,00043	0,490	0,0263	0,0015	0,0126	0,0779	
PFM000064	Sea Water	1,0	Bottom	2002-08-12 12:00	4226	0,00310		0,00060	0,589	0,0297	0,0016	0,0181	0,118	
PFM000064	Sea Water	0,5	Surface	2002-08-12 12:00	4225	0,00330		0,00100	0,569	0,0264	0,0014	0,0157	0,119	
PFM000064	Sea Water	1,0	Bottom	2002-09-02 07:30	4256	0,00280		0,00080			0,0018	0,0207		
PFM000064	Sea Water	0,5	Surface	2002-09-02 07:30	4255	0,00270		0,00130			0,0010	0,0283		
PFM000064	Sea Water	1,0	Bottom	2002-09-16 18:00	4268	0,00310		0,00040	0,571	0,0366	0,0014	0,0215	0,176	
PFM000064	Sea Water	0,5	Surface	2002-09-16 18:00	4267	0,00290		0,00070	0,531	0,0311	0,0016	0,0208	0,151	
PFM000064	Sea Water	1,0	Bottom	2002-09-30 07:30	4311	0,00900		0,00280	0,415	0,0205	0,0023	0,0125	0,127	
PFM000064	Sea Water	0,5	Surface	2002-09-30 07:30	4310	0,0100		0,00170	0,441	0,0206	0,0024	0,0125	0,108	
PFM000064	Sea Water	0,5	Surface	2002-10-21 13:00	4330	0,00771		0,00733	0,680	0,0174	0,0012	0,0972	0,760	
PFM000064	Sea Water	1,0	Bottom	2002-10-21 13:00	4323	0,0146		0,00700	1,000	0,0281	0,0020	0,198	1,02	
PFM000064	Sea Water	1,0	Bottom	2002-11-11 08:00	4354	0,0288	0,00166	0,01482	0,433	0,0212	0,0007	0,00995	0,103	
PFM000064	Sea Water	0,5	Surface	2002-11-11 08:00	4353	0,0259	0,00180	0,01269	0,404	0,0199	0,0010	0,00964	0,102	
PFM000064	Sea Water	0,5	Surface	2002-11-25 08:00	4378	0,0771	0,00272	0,19638	0,435	0,0147	0,0013	0,00748	0,0476	
PFM000064	Sea Water	1,0	Bottom	2002-11-25 08:00	4379	0,0591	0,00211	0,01897	0,432	0,0186	0,0013	0,00982	0,0545	

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth	Info.	Date - time	Sample no.	SiO2-Si	Chlorophyll a	Chlorophyll c	Pheopigment	POC	TOC	DOC	O2 diss
		m				mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
PFM000063	Sea Water	0,5	Surface	2002-11-25 08:00	4380	0,450	2,13	-0,5	-0,5	0,174	2,64	1,46	12,6
PFM000063	Sea Water	0,5	Surface	2002-12-16 08:00	4410	0,505	1,51	-0,5	0,57	0,182	3,84	2,81	13,0
PFM000063	Sea Water	4,3	Bottom	2002-12-16 08:00	4411	0,535	2,04	-0,5	0,82	0,193	3,86	3,82	12,0
PFM000063	Sea Water	1,0	Bottom	2003-01-14 07:30	4450	0,887	1,10	-0,5	0,70	0,160	3,40	2,20	11,0
PFM000063	Sea Water	0,5	Surface	2003-01-14 07:30	4445	0,848	0,80	-0,5	-0,5	0,127	3,60	4,00	12,4
PFM000063	Sea Water	4,5	Bottom	2003-02-17 07:30	4494	0,831	0,70	-0,5	0,70	0,080	2,40	2,40	10,1
PFM000063	Sea Water	0,5	Surface	2003-02-17 07:30	4493	1,76	-0,5	-0,5	-0,5	0,155	5,80	9,60	11,4
PFM000064	Sea Water	0,5	Surface	2002-05-07 12:00	4085	2,71	10,60	1,20	2,10	0,600	7,80	6,30	12,2
PFM000064	Sea Water	1,5	Bottom	2002-05-07 12:00	4087	0,468				0,581	4,00	3,20	12,2
PFM000064	Sea Water	0,5	Surface	2002-05-14 11:15	4107	0,407	4,76	0,59	2,68	0,804	3,69	4,67	11,1
PFM000064	Sea Water	1,5	Bottom	2002-05-14 11:15	4108	0,858	4,33	0,55	0,65	0,813	3,42	2,29	11,7
PFM000064	Sea Water	1,5	Bottom	2002-05-27 16:00	4126	0,203	3,46	-0,5	1,32	0,882	5,79	4,35	11,9
PFM000064	Sea Water	0,5	Surface	2002-05-27 16:00	4125	0,199	2,78	0,48	1,26	0,602	3,44	2,11	11,8
PFM000064	Sea Water	0,5	Surface	2002-06-10 15:20	4157	0,178	2,82	-0,5	3,81	0,415	16,0	9,08	11,1
PFM000064	Sea Water	1,0	Bottom	2002-06-10 15:20	4158	0,233	3,44	-0,5	0,92	0,351	14,4	12,2	10,8
PFM000064	Sea Water	1,0	Bottom	2002-06-24 15:30	4187	0,283	3,80	-0,5	1,10	0,652	5,30	5,20	11,1
PFM000064	Sea Water	0,5	Surface	2002-06-24 15:30	4186	0,279	4,20	-0,5	-0,5	0,401	5,40	2,40	10,3
PFM000064	Sea Water	0,5	Surface	2002-07-15 00:00	4196	0,242	3,87	-0,5	1,18	0,328	4,54	3,71	10,0
PFM000064	Sea Water	1,0	Bottom	2002-07-15 00:00	4197	0,340	4,37	-0,5	1,37	0,420	6,06	3,30	12,8
PFM000064	Sea Water	1,0	Bottom	2002-08-12 12:00	4226	0,650	5,40	-0,5	0,90	0,621	4,90	4,00	10,1
PFM000064	Sea Water	0,5	Surface	2002-08-12 12:00	4225	0,670	4,70	-0,5	1,00	0,727	8,30	6,20	10,2
PFM000064	Sea Water	1,0	Bottom	2002-09-02 07:30	4256	0,326	7,10	0,60	0,90		4,68	5,13	9,2
PFM000064	Sea Water	0,5	Surface	2002-09-02 07:30	4255	0,330	7,40	0,70	0,80		5,30	6,10	10,2
PFM000064	Sea Water	1,0	Bottom	2002-09-16 18:00	4268	0,259	6,60	0,70	3,00	1,000	5,90	5,50	10,4
PFM000064	Sea Water	0,5	Surface	2002-09-16 18:00	4267	0,254	6,90	0,80	0,80	1,010	3,70	5,70	10,7
PFM000064	Sea Water	1,0	Bottom	2002-09-30 07:30	4311	0,170	5,00	0,60	0,60	0,669	2,50	2,20	11,2
PFM000064	Sea Water	0,5	Surface	2002-09-30 07:30	4310	0,208	4,60	0,60	-0,5	0,649	3,90	2,90	11,3
PFM000064	Sea Water	0,5	Surface	2002-10-21 13:00	4330	0,396	11,3	2,92	-0,5	0,399	10,0	4,96	13,1
PFM000064	Sea Water	1,0	Bottom	2002-10-21 13:00	4323	0,516	11,5	10,2	1,45	0,228	19,7	4,97	13,0
PFM000064	Sea Water	1,0	Bottom	2002-11-11 08:00	4354	0,224	3,70	-0,5	1,50	0,640	4,60	4,60	13,2
PFM000064	Sea Water	0,5	Surface	2002-11-11 08:00	4353	0,204	3,30	-0,5	-0,5	0,687	4,40	4,90	13,4
PFM000064	Sea Water	0,5	Surface	2002-11-25 08:00	4378	0,126	3,88	0,60	0,95	0,330	2,39	2,84	11,2
PFM000064	Sea Water	1,0	Bottom	2002-11-25 08:00	4379	0,331	4,12	0,56	0,99	0,342	4,41	2,83	11,1

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000064	Sea Water	0,5 Surface		2002-12-16 08:00	4416	0,185	0,01372	1,47361		2,75	0,0338	0,0033	0,0263	0,120
PFM000064	Sea Water	1,0 Bottom		2002-12-16 08:00	4417	0,0659	0,00367	0,19361		1,42	0,0175	0,0028	0,00920	0,0471
PFM000065	Sea Water	0,5 Surface		2002-05-27 16:45	4128	0,00106		0,00099		0,362	0,0172	0,0014	0,0110	0,0729
PFM000065	Sea Water	0,5 Surface		2002-06-10 16:30	4147	0,00103	0,002	0,00271	-0,01	0,412	0,0242	0,0027	0,0135	0,122
PFM000065	Sea Water	0,5 Surface		2002-06-24 16:10	4188	0,00110		0,00050		0,330	0,0181	0,0017	0,0124	0,0690
PFM000065	Sea Water	0,5 Surface		2002-07-15 00:00	4212	0,00222		0,00059		0,359	0,0171	0,0015	0,00807	0,0538
PFM000065	Sea Water	0,5 Surface		2002-08-12 12:15	4231	0,00420		0,00050		0,554	0,0233	0,0009	0,0123	0,0850
PFM000065	Sea Water	0,5 Surface		2002-09-02 07:30	4249	0,00180		0,00030				-0,0005	0,00730	
PFM000065	Sea Water	0,5 Surface		2002-09-16 18:00	4269	0,00250		0,00330		0,320	0,0175	0,0017	0,0143	0,0760
PFM000065	Sea Water	0,5 Surface		2002-09-30 07:30	4308	0,00810		0,01830		0,370	0,0230	0,0037	0,0146	0,104
PFM000065	Sea Water	0,5 Surface		2002-10-21 13:00	4325	0,00517		0,00352		0,480	0,0226	0,0014	0,00971	0,559
PFM000065	Sea Water	0,5 Surface		2002-11-11 08:00	4355	0,0117	0,00104	0,01157		0,337	0,0168	0,0011	0,0109	0,0856
PFM000065	Sea Water	0,5 Surface		2002-11-25 08:00	4376	0,0517	0,00150	0,07795		0,501	0,0149	0,0016	0,00864	0,0350
PFM000065	Sea Water	0,5 Surface		2002-12-16 08:00	4408	0,0381	0,00647	0,49266		1,41	0,0200	0,0044	0,00979	0,0457
PFM000065	Sea Water	0,5 Surface		2003-01-13 08:00	4446	0,0895	0,00520	0,25450		0,990	0,0225	0,0029	0,0111	0,0707
PFM000065	Sea Water	0,5 Surface		2003-02-17 07:30	4503	0,114		0,60060		1,52	0,0278	0,0052	0,00820	0,0314
PFM000082	Sea Water			2002-03-20 13:04	4007	0,00500		0,08400		0,324	0,0120	0,0020	0,00400	0,0240
PFM000082	Sea Water	0,5 Surface		2002-04-02 14:35	4036	0,00400		0,02900		0,390	0,0160	0,0010	0,00900	0,0400
PFM000082	Sea Water	6,5 Bottom		2002-04-02 15:20	4032	0,00500		0,03300		0,297	0,0140	0,0010	0,00700	0,0430
PFM000082	Sea Water	0,5 Surface		2002-04-16 13:30	4044	0,02000		0,02650		0,285	0,0113	0,0007	0,00650	0,0591
PFM000082	Sea Water	6,0 Bottom		2002-04-16 13:30	4047	0,01800		0,02810		0,277	0,0115	0,0007	0,00600	0,0534
PFM000082	Sea Water	0,5 Surface		2003-01-13 08:00	4438	0,00960	0,00220	0,15050		0,408	0,0100	0,0051	0,00190	0,0138
PFM000082	Sea Water	6,5 Bottom		2003-01-13 08:00	4439	0,00530	0,00260	0,07580		0,294	0,00960	0,0052	0,00470	0,0181
PFM000082	Sea Water	6,5 Bottom		2003-02-17 07:30	4490	0,00420		0,05630		0,297	0,0113	0,0041	0,00160	0,0110
PFM000082	Sea Water	0,5 Surface		2003-02-17 07:30	4489	0,0131		0,17490		1,22	0,0269	0,0054	0,00740	0,0242
PFM000083	Sea Water			2002-03-18 16:30	4000	0,0171		0,24400		0,659	0,0170	0,0023	0,0820	0,0440
PFM000083	Sea Water	0,5 Surface		2002-04-01 18:15	4029	0,00300		0,07700		0,339	0,0120	0,0010	0,00600	0,0380
PFM000083	Sea Water	6,5 Bottom		2002-04-01 19:00	4025	0,00500		0,02700		0,288	0,0110	-0,0010	0,00700	0,0400
PFM000083	Sea Water	6,0 Bottom		2002-04-16 19:37	4054	0,0110		0,01050		0,284	0,0124	-0,0007	0,00750	0,0623
PFM000083	Sea Water	0,5 Surface		2002-04-16 19:37	4053	0,0100		0,00120		0,275	0,0122	-0,0007	0,00660	0,0587
PFM000084	Sea Water			2002-03-20 13:49	4005	0,0300		0,37100		0,840	0,0260	0,0080	0,0980	0,0360
PFM000084	Sea Water	0,5 Surface		2002-04-02 10:30	4035	0,0120		0,59600		1,30	0,0360	0,0040	0,0210	0,0910
PFM000084	Sea Water	2,5 Bottom		2002-04-02 11:10	4037	0,00900		0,15000		0,420	0,0170	0,0030	0,0100	0,0390

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Idcode	Water type	Depth	Info.	Date - time	Sample no.	SiO2-Si	Chlorophyll a	Chlorophyll c	Pheopigment	POC	TOC	DOC	O2 diss
		m				mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
PFM000064	Sea Water	0,5 Surface		2002-12-16 08:00	4416	3,36	14,5	3,39	2,62	0,799	10,5	6,80	9,6
PFM000064	Sea Water	1,0 Bottom		2002-12-16 08:00	4417	1,14	2,67	0,58	2,23	0,318	3,79	6,41	
PFM000065	Sea Water	0,5 Surface		2002-05-27 16:45	4128	0,147	2,86	-0,5	-0,5	0,265	3,29	3,87	12,1
PFM000065	Sea Water	0,5 Surface		2002-06-10 16:30	4147	0,213	6,48	-0,5	3,70	0,949	2,47	2,24	10,9
PFM000065	Sea Water	0,5 Surface		2002-06-24 16:10	4188	0,254	2,50	-0,5	-0,5	0,422	2,30	4,60	11,9
PFM000065	Sea Water	0,5 Surface		2002-07-15 00:00	4212	0,352	1,91	-0,5	1,03	0,306	5,41	4,82	11,2
PFM000065	Sea Water	0,5 Surface		2002-08-12 12:15	4231	0,910	3,80	-0,5	1,00	0,459	9,00	6,90	10,1
PFM000065	Sea Water	0,5 Surface		2002-09-02 07:30	4249	0,531	3,00	-0,5	-0,5		4,90	5,10	11,1
PFM000065	Sea Water	0,5 Surface		2002-09-16 18:00	4269	0,543	3,60	-0,5	1,30	0,479	4,60	4,60	10,6
PFM000065	Sea Water	0,5 Surface		2002-09-30 07:30	4308	0,399	4,40	0,50	1,00	0,717	3,20	5,90	10,5
PFM000065	Sea Water	0,5 Surface		2002-10-21 13:00	4325	0,383	11,8	4,48	0,82	0,332	22,9	3,06	12,7
PFM000065	Sea Water	0,5 Surface		2002-11-11 08:00	4355	0,417	3,80	-0,5	1,00	0,594	3,50	4,30	13,2
PFM000065	Sea Water	0,5 Surface		2002-11-25 08:00	4376	0,725	2,14	-0,5	0,83	0,263	3,96	1,57	13,3
PFM000065	Sea Water	0,5 Surface		2002-12-16 08:00	4408	3,35	3,33	1,00	0,46	0,376	19,3	18,2	10,8
PFM000065	Sea Water	0,5 Surface		2003-01-13 08:00	4446	2,41	17,5	6,50	2,40	0,472	5,80	13,0	9,1
PFM000065	Sea Water	0,5 Surface		2003-02-17 07:30	4503	2,43	6,30	1,90	1,00	0,218	17,0	16,7	10,3
PFM000082	Sea Water	-		2002-03-20 13:04	4007	0,707	2,70	-0,5	-0,5		3,30	3,30	
PFM000082	Sea Water	0,5 Surface		2002-04-02 14:35	4036	0,434	4,80	0,80	1,10	0,214	4,20	4,50	14,7
PFM000082	Sea Water	6,5 Bottom		2002-04-02 15:20	4032	0,426	4,00	0,70	-0,5	0,272	5,20	3,00	14,7
PFM000082	Sea Water	0,5 Surface		2002-04-16 13:30	4044	0,156	5,50	1,30	-0,5	0,447			13,8
PFM000082	Sea Water	6,0 Bottom		2002-04-16 13:30	4047	0,164	5,10	1,10	0,80	0,405			13,7
PFM000082	Sea Water	0,5 Surface		2003-01-13 08:00	4438	0,728	0,60	-0,5	0,70	0,131	2,60	1,30	
PFM000082	Sea Water	6,5 Bottom		2003-01-13 08:00	4439	0,677	0,60	-0,5	0,60	0,161	1,60	1,60	13,8
PFM000082	Sea Water	6,5 Bottom		2003-02-17 07:30	4490	0,613	-0,5	-0,5	-0,5	0,100	1,70	1,70	14,0
PFM000082	Sea Water	0,5 Surface		2003-02-17 07:30	4489	0,731	-0,5	-0,5	-0,5	0,187	2,30	2,10	13,5
PFM000083	Sea Water	-		2002-03-18 16:30	4000	1,71	2,00	-0,5	-0,5	0,284	6,50	8,00	
PFM000083	Sea Water	0,5 Surface		2002-04-01 18:15	4029	0,671	2,20	-0,5	-0,5	0,234	3,00	2,70	14,7
PFM000083	Sea Water	6,5 Bottom		2002-04-01 19:00	4025	0,407	5,20	0,90	0,8	0,219	4,70	3,70	14,6
PFM000083	Sea Water	6,0 Bottom		2002-04-16 19:37	4054	0,192	5,60	1,10	-0,5	0,411	4,55	4,66	13,5
PFM000083	Sea Water	0,5 Surface		2002-04-16 19:37	4053	0,197	5,10	1,10	-0,5	0,420	4,53	4,12	13,3
PFM000084	Sea Water	-		2002-03-20 13:49	4005	2,29	0,60	-0,5	-0,5	0,229	7,20	7,70	
PFM000084	Sea Water	0,5 Surface		2002-04-02 10:30	4035	3,52	3,80	0,90	0,50	0,565	13,1	13,4	11,4
PFM000084	Sea Water	2,5 Bottom		2002-04-02 11:10	4037	1,04	3,10	0,50	0,50	0,223	3,30	3,20	13,2

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000084	Sea Water	2,5	Bottom	2002-04-17 18:30	4063	0,243		0,34600		1,17	0,0390	0,0053	0,0223	0,0897
PFM000084	Sea Water	0,5	Surface	2002-04-17 18:30	4062	0,240		0,36100		1,17	0,0379	0,0042	0,0212	0,0869
PFM000153	Sea Water	0,3	Surface	2002-05-07 12:55	4086	0,00299		0,16110		0,537	0,0210	0,0013	0,0129	0,0627
PFM000153	Sea Water	0,5	Surface	2002-05-14 12:08	4104	0,00283	-0,001	0,01470	-0,01	0,479	0,0202	0,0023	0,0207	0,0983
PFM000066	Streaming Water	0,2	Surface	2002-03-20 11:05	4015	0,00300		0,01700		0,588	0,00800	-0,0010	0,00300	0,0160
PFM000066	Streaming Water	0,2	Surface	2002-04-15 11:40	4045	0,0670		0,00270		0,564	0,00740	0,0013	0,00230	0,0135
PFM000066	Streaming Water	0,1	Surface	2002-05-05 20:20	4070	0,0189		0,03250		0,671	0,00966	0,0023	0,00565	0,0392
PFM000066	Streaming Water	0,5	Surface	2002-05-12 19:00	4092	0,0321		0,01020		0,739	0,0127	0,0026	0,00573	0,0401
PFM000066	Streaming Water	0,1	Surface	2002-05-26 22:00	4119	0,0145		0,00819		0,798	0,0161	0,0033	0,00751	0,0552
PFM000066	Streaming Water	0,1	Surface	2002-06-23 21:10	4174	0,0333	0,003	0,00960	-0,01	0,873	0,0192	0,0046	0,00890	0,0502
PFM000066	Streaming Water	0,2	Surface	2002-07-16 00:00	4208	0,0232		0,00399		0,906	0,0178	0,0035	0,00814	0,0889
PFM000066	Streaming Water	0,1	Surface	2002-08-11 22:00	4223	0,0257	0,00500	0,00760	-0,01	0,968	0,0169	0,0031	0,00550	0,0269
PFM000066	Streaming Water	0,5	Surface	2002-11-26 08:00	4394	0,00855	0,00239	0,32549		1,01	0,0136	0,0025	0,00860	0,0394
PFM000066	Streaming Water	0,1	Surface	2002-12-17 07:30	4424	0,00803	0,00259	0,13009		1,14	0,00814	0,0017	0,00860	0,0163
PFM000066	Streaming Water	0,1	Surface	2003-01-13 08:00	4454	0,0475	0,00070	0,00440		0,916	0,00950	0,0017	0,00480	0,0307
PFM000066	Streaming Water	0,1	Surface	2003-02-17 07:30	4509	0,0397		0,01210		1,17	0,00770	0,0009	0,00220	0,0164
PFM000067	Streaming Water	0,1	Surface	2002-03-19 10:16	4009	0,0580		0,03800		0,951	0,0110	0,0010		
PFM000067	Streaming Water	0,2	Surface	2002-04-01 15:15	4023	0,0250		0,02600		0,732	0,0120	-0,0010	0,00400	0,0330
PFM000067	Streaming Water	0,5	Surface	2002-04-17 11:00	4057	0,131		0,00370		0,769	0,0161	0,0014	0,0108	0,110
PFM000067	Streaming Water	0,1	Surface	2002-05-06 09:30	4072	0,0216		0,05170		0,775	0,0124	0,0023	0,00672	0,0395
PFM000067	Streaming Water	0,5	Surface	2002-05-13 12:00	4098	0,00516		0,00319		0,843	0,0179	0,0032	0,00811	0,0640
PFM000067	Streaming Water	0,1	Surface	2002-05-27 09:15	4123	0,0154		0,00247		0,941	0,0176	0,0022	0,00475	0,0438
PFM000067	Streaming Water	0,1	Surface	2002-06-10 09:40	4149	0,0461		0,00537		1,15	0,0199	0,0054	0,00575	0,0455
PFM000067	Streaming Water	0,1	Surface	2002-06-24 10:00	4180	0,0231		0,00230		1,21	0,0216	0,0029	0,00890	0,0888
PFM000067	Streaming Water	0,1	Surface	2002-07-15 00:00	4204	0,0206		0,00080		1,13	0,0166	0,0027	0,00709	0,0758
PFM000067	Streaming Water	0,1	Surface	2002-08-12 17:50	4242	0,0238		0,00170		1,10	0,0170	0,0024	0,00770	0,0626
PFM000067	Streaming Water	0,1	Surface	2002-09-02 07:30	4259	0,0237		0,00220				0,0017	0,0144	
PFM000067	Streaming Water	0,1	Surface	2002-09-16 18:00	4286	0,0359		0,00510		1,31	0,0221	0,0035	0,0111	
PFM000067	Streaming Water	0,1	Surface	2002-09-30 07:30	4313	0,0279		0,00660		1,19	0,0172	0,0041	0,00892	0,102
PFM000067	Streaming Water	0,1	Surface	2002-10-22 07:30	4339	0,0135		0,00488		0,980	0,0139	0,0018	0,0864	0,505
PFM000067	Streaming Water	0,1	Surface	2002-11-13 07:00	4356	0,00683	0,00038	0,00308		1,34	0,0239	0,0014	0,0117	0,126
PFM000067	Streaming Water	0,1	Surface	2002-11-26 08:00	4395	0,0203	0,00076	0,04146		1,14	0,0157	0,0021	0,00609	0,112

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000084	Sea Water	2,5 Bottom		2002-04-17 18:30	4063	3,12	4,00	0,60	1,50	0,802	13,8	13,9	12,0
PFM000084	Sea Water	0,5 Surface		2002-04-17 18:30	4062	3,00	4,50	0,60	1,30	0,763	13,2	12,6	11,8
PFM000153	Sea Water	0,3 Surface		2002-05-07 12:55	4086	0,63	8,30	1,10	1,40	0,323	5,80	4,90	12,3
PFM000153	Sea Water	0,5 Surface		2002-05-14 12:08	4104	0,36	4,00	0,5	0,58	0,733	5,50	5,60	11,7
PFM000066	Streaming Water	0,2 Surface		2002-03-20 11:05	4015	4,61	1,90	-0,5	-0,5	0,094	11,0	12,0	
PFM000066	Streaming Water	0,2 Surface		2002-04-15 11:40	4045	3,64				0,141			7,2
PFM000066	Streaming Water	0,1 Surface		2002-05-05 20:20	4070	3,35	1,10	-0,5	-0,5	0,259	13,8	11,8	6,7
PFM000066	Streaming Water	0,5 Surface		2002-05-12 19:00	4092	3,73	6,96	-0,5	-0,5	0,303	14,6	7,34	6,1
PFM000066	Streaming Water	0,1 Surface		2002-05-26 22:00	4119	3,00	1,44	-0,5	0,49	0,217	16,8	16,6	7,4
PFM000066	Streaming Water	0,1 Surface		2002-06-23 21:10	4174	2,96	-0,5	-0,5	0,70	0,277	17,8	17,3	5,3
PFM000066	Streaming Water	0,2 Surface		2002-07-16 00:00	4208	3,68				0,664	15,7	19,0	4,5
PFM000066	Streaming Water	0,1 Surface		2002-08-11 22:00	4223	4,28				0,184	21,0	19,9	3,9
PFM000066	Streaming Water	0,5 Surface		2002-11-26 08:00	4394	3,50	0,63	-0,5	0,59	0,264	15,7	14,3	8,1
PFM000066	Streaming Water	0,1 Surface		2002-12-17 07:30	4424	5,47	-0,5	-0,5	-0,5	0,117	16,6	15,6	6,1
PFM000066	Streaming Water	0,1 Surface		2003-01-13 08:00	4454	6,47	0,60	-0,5	-0,5	0,192	19,2	18,6	1,3
PFM000066	Streaming Water	0,1 Surface		2003-02-17 07:30	4509	5,57	-0,5	-0,5	-0,5	0,113	19,4	19,4	2,7
PFM000067	Streaming Water	0,1 Surface		2002-03-19 10:16	4009	4,46					23,0	22,0	
PFM000067	Streaming Water	0,2 Surface		2002-04-01 15:15	4023	3,37				0,202	16,3	15,9	6,1
PFM000067	Streaming Water	0,5 Surface		2002-04-17 11:00	4057	2,24				1,12	16,7	15,7	12,3
PFM000067	Streaming Water	0,1 Surface		2002-05-06 09:30	4072	0,996	2,20	-0,5	0,5	0,272	12,2	14,7	10,2
PFM000067	Streaming Water	0,5 Surface		2002-05-13 12:00	4098	0,304	2,87	-0,5	-0,5	0,396	9,18	14,0	9,6
PFM000067	Streaming Water	0,1 Surface		2002-05-27 09:15	4123	0,354	2,09	-0,5	-0,5	0,180	17,6	11,7	11,1
PFM000067	Streaming Water	0,1 Surface		2002-06-10 09:40	4149	0,804	1,73	-0,5	-0,5	0,406	2,47	2,91	7,1
PFM000067	Streaming Water	0,1 Surface		2002-06-24 10:00	4180	1,12	2,90	-0,5	0,80	0,773	16,3	16,6	9,2
PFM000067	Streaming Water	0,1 Surface		2002-07-15 00:00	4204	1,06				0,635	18,3	17,4	8,1
PFM000067	Streaming Water	0,1 Surface		2002-08-12 17:50	4242	1,79				0,457	19,6	18,3	8,8
PFM000067	Streaming Water	0,1 Surface		2002-09-02 07:30	4259	1,64	6,50	-0,5	1,10		17,4	23,2	10,1
PFM000067	Streaming Water	0,1 Surface		2002-09-16 18:00	4286	1,45	3,90	-0,5	-0,5		20,5	20,0	10,2
PFM000067	Streaming Water	0,1 Surface		2002-09-30 07:30	4313	0,717	3,20	-0,5	-0,5	0,789	17,7	19,1	11,3
PFM000067	Streaming Water	0,1 Surface		2002-10-22 07:30	4339	1,18	20,0	4,99	0,60	0,361	6,05	20,6	12,6
PFM000067	Streaming Water	0,1 Surface		2002-11-13 07:00	4356	0,190	21,8	2,00	6,20	1,06	20,1	15,0	12,2
PFM000067	Streaming Water	0,1 Surface		2002-11-26 08:00	4395	0,297	21,3	1,50	23,0	0,792	17,4	6,93	12,1

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000067	Streaming Water	0,1	Surface	2002-12-17 07:30	4427	0,0498	0,00132	0,08218	1,33	0,00948	0,0013	0,00298	0,0283	
PFM000067	Streaming Water	0,1	Surface	2003-01-15 07:30	4459	0,284	0,00180	0,01670	1,50	0,00950	0,0008	0,00420	0,0321	
PFM000067	Streaming Water	0,1	Surface	2003-02-18 07:30	4500	0,196		0,02660	1,42	0,0110	0,0006	0,00490	0,0304	
PFM000068	Streaming Water	0,5	Surface	2002-03-18 18:20	4014	0,0280		0,05400	0,897	0,0100	0,0010			
PFM000068	Streaming Water	0,3	Surface	2002-04-01 16:10	4024	0,0130		0,02400	0,684	0,0100	-0,0010	0,00400	0,0200	
PFM000068	Streaming Water	0,5	Surface	2002-04-15 15:10	4046	0,344		0,02190	0,830	0,0136	0,0021	0,00600	0,0340	
PFM000068	Streaming Water	0,1	Surface	2002-05-05 20:00	4080	0,0400		0,03070	0,970	0,0182	0,0044	0,00647	0,0522	
PFM000068	Streaming Water	0,1	Surface	2002-05-13 18:00	4093	0,0320		0,01280	0,948	0,0179	0,0038	0,00766	0,0552	
PFM000068	Streaming Water	0,1	Surface	2002-05-28 12:00	4137	0,0304		0,01157	0,903	0,0167	0,0048	0,00686	0,0502	
PFM000068	Streaming Water	0,0	Surface	2002-06-11 11:00	4160	0,510		0,02570	1,82	0,0664	0,0257		0,130	
PFM000068	Streaming Water	0,2	Surface	2002-06-23 23:15	4176	0,0157		0,02170	1,03	0,0214	0,0052	0,00890	0,0585	
PFM000068	Streaming Water	0,2	Surface	2002-07-16 00:00	4213	0,0173		0,00421	1,05	0,0180	0,0072	0,00559	0,0493	
PFM000068	Streaming Water	0,1	Surface	2002-08-13 11:40	4238	0,0428		0,01440	1,16	0,0189	0,0067	0,00530	0,0395	
PFM000068	Streaming Water	0,2	Surface	2002-09-03 07:30	4271	0,0196		0,02950			0,0055	0,00550		
PFM000068	Streaming Water	0,1	Surface	2002-10-01 07:30	4301	0,00250		0,00080	1,06	0,0157	0,0025	0,00509	0,0355	
PFM000068	Streaming Water	0,5	Surface	2002-10-22 07:30	4343	0,00196		0,00143	0,960	0,0115	0,0034	0,00517	0,350	
PFM000068	Streaming Water	0,5	Surface	2002-11-13 07:00	4362	0,0132	0,00115	0,02316	1,04	0,00876	0,0023	0,00252	0,0190	
PFM000068	Streaming Water	0,5	Surface	2002-11-26 08:00	4393	0,00644	0,00162	0,41401	1,32	0,0252	0,0036	0,0159	0,0681	
PFM000068	Streaming Water	0,1	Surface	2002-12-18 07:30	4425	0,0248	0,00233	0,05927	1,35	0,00875	0,0035	0,00294	0,0227	
PFM000068	Streaming Water	0,1	Surface	2003-01-16 07:30	4457	0,0902	0,00300	0,11270	1,18	0,0118	0,0024	0,00520	0,0382	
PFM000068	Streaming Water	0,1	Surface	2003-02-19 07:30	4497	0,179		0,04360	1,14	0,00890	0,0006	0,00310	0,0204	
PFM000069	Streaming Water	0,2	Surface	2002-03-19 16:30	4016	0,00100		0,00700	0,793	0,0130	0,0090			
PFM000069	Streaming Water	0,2	Surface	2002-04-01 16:45	4028	0,00200		0,00800	0,654	0,0140	0,0010	0,00600	0,0250	
PFM000069	Streaming Water	0,5	Surface	2002-04-17 13:45	4055	0,0690		0,00380	0,661	0,0127	0,0016	0,00570	0,0250	
PFM000069	Streaming Water	0,1	Surface	2002-05-06 19:30	4075	0,0156		0,00654	0,822	0,0137	0,0038	0,00568	0,0288	
PFM000069	Streaming Water	0,1	Surface	2002-05-13 16:30	4089	0,00312		0,03808	0,855	0,0152	0,0065	0,00527	0,0379	
PFM000069	Streaming Water	0,1	Surface	2002-05-28 11:40	4136	0,0247		0,00442	0,889	0,0184	0,0056	0,00658	0,0436	
PFM000069	Streaming Water	0,0	Surface	2002-06-11 00:00	4159	0,288		0,04882	1,70	0,0938	0,0488		0,127	
PFM000069	Streaming Water	0,1	Surface	2002-06-24 00:00	4189	0,0280		0,03360	1,02	0,0228	0,0055	0,00750	0,0467	
PFM000069	Streaming Water	0,2	Surface	2002-07-16 00:00	4211	0,0122		0,00276	0,978	0,0151	0,0046	0,00315	0,0216	
PFM000069	Streaming Water	0,1	Surface	2002-08-13 11:00	4244	0,0117		0,00500	1,05	0,0142	0,0049	0,00300	0,0188	
PFM000069	Streaming Water	0,1	Surface	2002-09-03 07:30	4252	0,0130		0,00820			0,0047	0,00520		
PFM000069	Streaming Water	0,1	Surface	2002-10-01 07:30	4300	0,0100		0,01360	1,07	0,0173	0,0037	0,00508	0,0621	

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000067	Streaming Water	0,1	Surface	2002-12-17 07:30	4427	1,98	0,64	-0,5	0,5	0,253	21,8	21,2	9,7
PFM000067	Streaming Water	0,1	Surface	2003-01-15 07:30	4459	2,10	-0,5	-0,5	-0,5	0,251	20,6	21,0	2,6
PFM000067	Streaming Water	0,1	Surface	2003-02-18 07:30	4500	4,15	-0,5	-0,5	-0,5	0,240	22,7	23,0	1,9
PFM000068	Streaming Water	0,5	Surface	2002-03-18 18:20	4014	5,21					20,0		
PFM000068	Streaming Water	0,3	Surface	2002-04-01 16:10	4024	3,47				0,083	14,0	14,0	5,8
PFM000068	Streaming Water	0,5	Surface	2002-04-15 15:10	4046	4,08				0,385			7,1
PFM000068	Streaming Water	0,1	Surface	2002-05-05 20:00	4080	4,13	1,50	-0,5	0,50	0,370	17,8	14,0	6,9
PFM000068	Streaming Water	0,1	Surface	2002-05-13 18:00	4093	1,17	0,98	-0,5	-0,5	0,405	19,6	18,9	5,6
PFM000068	Streaming Water	0,1	Surface	2002-05-28 12:00	4137	6,03	0,87	-0,5	0,88	0,183	18,1	20,3	8,2
PFM000068	Streaming Water	0,0	Surface	2002-06-11 11:00	4160	6,61	0,51	-0,5	0,53	1,15	19,0	10,0	2,1
PFM000068	Streaming Water	0,2	Surface	2002-06-23 23:15	4176	2,51	0,50	-0,5	-0,5	0,385	22,8	22,3	6,1
PFM000068	Streaming Water	0,2	Surface	2002-07-16 00:00	4213	3,68				0,521	22,9	22,7	5,3
PFM000068	Streaming Water	0,1	Surface	2002-08-13 11:40	4238	5,68				0,321	20,8	23,3	4,5
PFM000068	Streaming Water	0,2	Surface	2002-09-03 07:30	4271	6,12	1,00	-0,5	0,80		19,3	24,4	5,0
PFM000068	Streaming Water	0,1	Surface	2002-10-01 07:30	4301	7,06	1,90	-0,5	2,40	0,228	21,3	22,5	4,7
PFM000068	Streaming Water	0,5	Surface	2002-10-22 07:30	4343	0,972	39,1	-0,5	-0,5	5,67	25,0	24,0	5,6
PFM000068	Streaming Water	0,5	Surface	2002-11-13 07:00	4362	7,15	-0,5	-0,5	-0,5	0,152	16,6	21,0	1,6
PFM000068	Streaming Water	0,5	Surface	2002-11-26 08:00	4393	2,59	-0,5	-0,5	-0,5	0,711	22,1	8,65	8,3
PFM000068	Streaming Water	0,1	Surface	2002-12-18 07:30	4425	4,06	-0,5	-0,5	-0,5	0,146	23,1	23,3	4,9
PFM000068	Streaming Water	0,1	Surface	2003-01-16 07:30	4457	5,71	-0,5	-0,5	-0,5	0,279	20,4	20,6	3,1
PFM000068	Streaming Water	0,1	Surface	2003-02-19 07:30	4497	4,14	-0,5	-0,5	-0,5	0,172	21,0	20,6	5,9
PFM000069	Streaming Water	0,2	Surface	2002-03-19 16:30	4016	5,92					17,0	18,0	
PFM000069	Streaming Water	0,2	Surface	2002-04-01 16:45	4028	4,31				0,160	15,4	16,2	2,5
PFM000069	Streaming Water	0,5	Surface	2002-04-17 13:45	4055	4,15	0,60	-0,5	-0,5	0,217	16,2	16,2	4,7
PFM000069	Streaming Water	0,1	Surface	2002-05-06 19:30	4075	4,95	1,10	-0,5	0,90	0,181	13,7	13,1	5,2
PFM000069	Streaming Water	0,1	Surface	2002-05-13 16:30	4089	4,51	1,09	-0,5	0,97	0,261	19,1	14,7	4,6
PFM000069	Streaming Water	0,1	Surface	2002-05-28 11:40	4136	6,09	1,64	-0,5	1,00	0,196	19,8	18,9	7,8
PFM000069	Streaming Water	0,0	Surface	2002-06-11 00:00	4159	6,14	1,28	-0,5	1,31	1,09	16,7	11,2	3,0
PFM000069	Streaming Water	0,1	Surface	2002-06-24 00:00	4189	4,32	0,70	-0,5	1,10	0,272	22,3	16,3	5,4
PFM000069	Streaming Water	0,2	Surface	2002-07-16 00:00	4211	4,07				0,215	23,0	22,0	5,4
PFM000069	Streaming Water	0,1	Surface	2002-08-13 11:00	4244	5,64				0,160	24,4	22,4	4,5
PFM000069	Streaming Water	0,1	Surface	2002-09-03 07:30	4252	5,74	1,80	-0,5	1,10		24,1	22,5	6,0
PFM000069	Streaming Water	0,1	Surface	2002-10-01 07:30	4300	6,99	-0,50	-0,5	-0,5	0,526	19,5	19,7	7,2

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000069	Streaming Water	0,1	Surface	2002-10-22 07:30	4342	0,0204		0,01283	1,54	0,0115	0,0027	0,0284	0,146	
PFM000069	Streaming Water	0,1	Surface	2002-11-13 07:00	4361	0,0223	0,00096	0,00616	1,14	0,0105	0,0035	0,00376	0,0308	
PFM000069	Streaming Water	0,1	Surface	2002-11-26 08:00	4384	0,0106	0,00130	0,17770	1,03	0,0161	0,0038	0,00811	0,0528	
PFM000069	Streaming Water	0,1	Surface	2002-12-18 07:30	4406	0,00170	0,00057	0,00219	0,946	0,0103	0,0026	0,00330	0,0199	
PFM000069	Streaming Water	0,1	Surface	2003-01-16 07:30	4455	0,0792	0,00140	0,02140	1,19	0,0190	0,0022	0,0128	0,0866	
PFM000069	Streaming Water	0,1	Surface	2003-02-19 07:30	4505	0,00100		0,01230	0,822	0,0111	0,0005	0,00530	0,0364	
PFM000070	Streaming Water	0,1	Surface	2002-03-18 12:30	4012	0,171		0,03100	1,09	0,0100	0,0030			
PFM000070	Streaming Water	0,1	Surface	2002-04-02 11:35	4030	0,0200		0,01000	0,744	0,00700	-0,0010	0,00300	0,0210	
PFM000070	Streaming Water	0,1	Surface	2002-04-16 10:00	4051	1,370		0,01040	1,07	0,00940	0,0024	0,00420	0,0267	
PFM000070	Streaming Water	0,1	Surface	2002-05-06 16:02	4078	0,0551		0,02720	0,980	0,0116	0,0021	0,00757	0,0724	
PFM000070	Streaming Water	0,1	Surface	2002-05-13 14:40	4100	0,0415		0,00937	1,12	0,0181	0,0030	0,0113	0,0837	
PFM000070	Streaming Water	0,0	Surface	2002-06-25 09:33	4193	0,0287		0,00360	1,07	0,0135	0,0011	0,00630	0,0692	
PFM000070	Streaming Water	0,2	Surface	2002-07-16 00:00	4210	0,0254		0,00266	1,10	0,0100	0,0018	0,00448	0,0520	
PFM000070	Streaming Water	0,1	Surface	2002-08-13 09:30	4240	0,0828		0,00420	1,08	0,0102	0,0024	0,00560	0,0493	
PFM000070	Streaming Water	0,1	Surface	2002-11-26 08:00	4375	0,178	0,00129	0,08607	1,36	0,00915	0,0028	0,00378	0,0431	
PFM000070	Streaming Water	0,1	Surface	2002-12-18 07:30	4423	0,163	0,00145	0,03106	1,76	0,00643	0,0023	0,00235	0,0357	
PFM000070	Streaming Water	0,1	Surface	2003-01-16 07:30	4456	0,511	0,00210	0,05920	1,94	0,0137	0,0020	0,00290	0,0423	
PFM000070	Streaming Water	0,1	Surface	2003-02-18 07:30	4508	0,670		0,01630	1,99	0,0121	0,0015	0,00480	0,0496	
PFM000071	Streaming Water	0,1	Surface	2002-03-18 10:00	4013	0,0250		0,27400	0,797	0,0210	0,0120			
PFM000071	Streaming Water	0,2	Surface	2002-04-01 13:30	4022	0,0150		0,25900	0,796	0,0220	0,0080	0,00500	0,0170	
PFM000071	Streaming Water	0,1	Surface	2002-04-16 11:00	4050	0,257		0,08830	0,656	0,0245	0,0125	0,00580	0,0215	
PFM000071	Streaming Water	0,1	Surface	2002-05-05 12:00	4077	0,0321		0,00954	0,658	0,0372	0,0142	0,0107	0,0349	
PFM000071	Streaming Water	0,2	Surface	2002-05-13 14:00	4101	0,0657		0,02610	0,672	0,0843	0,0435	0,0283	0,0626	
PFM000071	Streaming Water	0,1	Surface	2002-06-25 09:10	4192	0,0148		0,16540	0,855	0,0307	0,0145	0,00500	0,0290	
PFM000071	Streaming Water	0,1	Surface	2002-07-16 00:00	4209	0,0419		0,01209	0,759	0,0355	0,0126	0,00705	0,0302	
PFM000071	Streaming Water	0,1	Surface	2002-08-13 09:00	4239	0,139		0,01320	0,924	0,123	0,0616	0,0620	0,0678	
PFM000071	Streaming Water	0,5	Surface	2002-11-26 08:00	4374	0,00229	0,00114	0,52712	1,14	0,0246	0,0104	0,00596	0,0226	
PFM000071	Streaming Water	0,1	Surface	2002-12-18 07:30	4422	0,00654	0,00102	0,20547	0,695	0,0115	0,0063	0,00293	0,0161	
PFM000071	Streaming Water	0,1	Surface	2003-01-15 07:30	4460	0,0104	0,00080	0,09560	0,755	0,0117	0,0058	0,00330	0,0168	
PFM000071	Streaming Water	0,1	Surface	2003-02-18 07:30	4506	0,00800		0,23730	0,879	0,0171	0,0094	0,00150	0,0087	
PFM000072	Streaming Water	0,5	Surface	2002-03-18 15:00	4010	0,0100		0,00300	0,947	0,0240	-0,0010			
PFM000072	Streaming Water	0,2	Surface	2002-04-01 19:45	4031	0,00400		0,00400	0,776	0,0150	0,0020	0,00900	0,0410	
PFM000072	Streaming Water	0,5	Surface	2002-04-15 16:29	4042	0,0390		0,00110	0,718	0,0143	0,0024	0,00480	0,0217	

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SICADA: biochemistry\_supplements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000069	Streaming Water	0,1	Surface	2002-10-22 07:30	4342	1,00	39,7	0,77	-0,5	5,97	3,43	23,4	5,4
PFM000069	Streaming Water	0,1	Surface	2002-11-13 07:00	4361	8,18	0,70	-0,5	-0,5	0,230	21,0	22,6	0,5
PFM000069	Streaming Water	0,1	Surface	2002-11-26 08:00	4384	4,10	-0,5	-0,5	-0,5	0,378	19,2	11,7	6,4
PFM000069	Streaming Water	0,1	Surface	2002-12-18 07:30	4406	4,66	-0,5	-0,5	-0,5	0,129	22,0	14,8	0,3
PFM000069	Streaming Water	0,1	Surface	2003-01-16 07:30	4455	8,16	-0,5	-0,5	-0,5	0,546	24,6	18,3	0,9
PFM000069	Streaming Water	0,1	Surface	2003-02-19 07:30	4505	6,81	-0,5	-0,5	-0,5	0,181	18,8	16,4	2,8
PFM000070	Streaming Water	0,1	Surface	2002-03-18 12:30	4012	4,12					22,0	22,0	
PFM000070	Streaming Water	0,1	Surface	2002-04-02 11:35	4030	2,63				0,116	13,9	14,2	6,1
PFM000070	Streaming Water	0,1	Surface	2002-04-16 10:00	4051	3,58				0,213			10,7
PFM000070	Streaming Water	0,1	Surface	2002-05-06 16:02	4078	2,09	1,90	-0,5	0,60	0,496	15,9	16,8	1,0
PFM000070	Streaming Water	0,1	Surface	2002-05-13 14:40	4100	1,61	4,03	-0,5	0,66	0,612	18,2	14,4	6,9
PFM000070	Streaming Water	0,0	Surface	2002-06-25 09:33	4193	2,09	1,30	-0,5	-0,5	0,399	19,3	19,0	6,5
PFM000070	Streaming Water	0,2	Surface	2002-07-16 00:00	4210	2,34				0,470	17,5	17,6	4,4
PFM000070	Streaming Water	0,1	Surface	2002-08-13 09:30	4240	3,46				0,453	18,4	16,4	3,9
PFM000070	Streaming Water	0,1	Surface	2002-11-26 08:00	4375	2,67	3,27	0,51	-0,5	0,364	18,2	18,4	11,8
PFM000070	Streaming Water	0,1	Surface	2002-12-18 07:30	4423	3,28	1,01	-0,5	-0,5	0,276	21,5	20,6	10,0
PFM000070	Streaming Water	0,1	Surface	2003-01-16 07:30	4456	3,63	0,80	-0,5	0,60	0,440	21,6	20,5	9,2
PFM000070	Streaming Water	0,1	Surface	2003-02-18 07:30	4508	3,94	-0,5	-0,5	-0,5	0,353	23,1	22,4	3,0
PFM000071	Streaming Water	0,1	Surface	2002-03-18 10:00	4013	4,42					11,0	13,0	
PFM000071	Streaming Water	0,2	Surface	2002-04-01 13:30	4022	3,81				0,080	12,7	12,9	9,8
PFM000071	Streaming Water	0,1	Surface	2002-04-16 11:00	4050	3,39				0,223	9,80	10,0	11,4
PFM000071	Streaming Water	0,1	Surface	2002-05-05 12:00	4077	3,41	-0,5	-0,5	-0,5	0,317	11,5	11,7	10,3
PFM000071	Streaming Water	0,2	Surface	2002-05-13 14:00	4101	1,55	0,99	-0,5	1,73	0,467	13,0	12,3	6,6
PFM000071	Streaming Water	0,1	Surface	2002-06-25 09:10	4192	4,65	-0,5	-0,5	-0,5	0,171	15,5	15,8	8,2
PFM000071	Streaming Water	0,1	Surface	2002-07-16 00:00	4209	4,31				0,216	15,9	16,1	5,5
PFM000071	Streaming Water	0,1	Surface	2002-08-13 09:00	4239	6,00				0,777	17,8	15,6	2,1
PFM000071	Streaming Water	0,5	Surface	2002-11-26 08:00	4374	3,75	-0,5	-0,5	-0,5	0,253	12,7	8,03	8,3
PFM000071	Streaming Water	0,1	Surface	2002-12-18 07:30	4422	3,92	-0,5	-0,5	-0,5	0,128	11,8	11,4	4,1
PFM000071	Streaming Water	0,1	Surface	2003-01-15 07:30	4460	4,48	-0,5	-0,5	-0,5	0,108	9,80	8,7	3,9
PFM000071	Streaming Water	0,1	Surface	2003-02-18 07:30	4506	4,26	-0,5	-0,5	-0,5	0,064	10,0	9,00	9,4
PFM000072	Streaming Water	0,5	Surface	2002-03-18 15:00	4010	4,06					16,0	19,0	
PFM000072	Streaming Water	0,2	Surface	2002-04-01 19:45	4031	2,01				0,221	10,0	14,6	6,8
PFM000072	Streaming Water	0,5	Surface	2002-04-15 16:29	4042	1,56				0,181			5,3

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	NH4N mg/L	NO2N mg/L	NO3-N+NO2-N mg/L	NO3-N mg/L	tot-N mg/L	tot-P mg/L	PO4-P mg/L	POP mg/L	PON mg/L
PFM000072	Streaming Water	0,2	Surface	2002-05-06 12:00	4071	0,00883	-0,001	0,00777	-0,01	0,896	0,0214	0,0048	0,00819	0,0494
PFM000072	Streaming Water	0,5	Surface	2002-05-13 15:50	4094	0,0115		0,05830		1,07	0,0343	0,0068	0,0102	0,0625
PFM000072	Streaming Water	0,2	Surface	2002-05-27 21:00	4134	0,0799	0,004	0,01943	0,04	1,51	0,0718	0,0249	0,0212	0,116
PFM000072	Streaming Water	0,5	Surface	2002-06-10 21:00	4161	1,08		0,15204		2,66	0,248	0,1520		0,164
PFM000072	Streaming Water	0,5	Surface	2002-06-23 22:00	4175	0,00890		0,00390		0,974	0,0381	0,0047	0,0109	0,0725
PFM000072	Streaming Water	0,2	Surface	2002-07-15 00:00	4214	0,0101		0,00100		1,25	0,0333	0,0052	0,0118	0,102
PFM000072	Streaming Water	0,5	Surface	2002-08-12 20:30	4243	0,0450		0,05320		1,36	0,0355	0,0114	0,0129	0,0853
PFM000072	Streaming Water	0,1	Surface	2002-11-12 08:00	4345	0,0476	0,00120	0,00653		1,12	0,0703	0,0081	0,0738	0,277
PFM000072	Streaming Water	0,1	Surface	2002-11-26 08:00	4392	0,00417	0,00107	0,12833		1,74	0,0238	0,0027	0,0130	0,0687
PFM000072	Streaming Water	0,1	Surface	2002-12-18 07:30	4428	0,0282	0,00099	0,00556		1,64	0,0206	0,0037	0,00799	0,0542
PFM000072	Streaming Water	0,1	Surface	2003-01-16 07:30	4458	0,169	0,00250	0,02680		1,40	0,0729	0,0518	0,0160	0,112
PFM000072	Streaming Water	0,1	Surface	2003-02-19 07:30	4504	0,245		0,00860		1,55	0,0781	0,0463	0,0103	0,0776
PFM000073	Streaming Water	0,1	Surface	2002-03-18 17:40	4011	0,0730		2,16900		3,49	0,2100	0,0820		
PFM000073	Streaming Water	0,1	Surface	2002-04-02 09:20	4034	0,0100		2,08500		2,89	0,0360	0,0090	0,00800	0,0240
PFM000073	Streaming Water	0,1	Surface	2002-04-15 18:10	4043	0,341		1,35900		2,55	0,0419	0,0082	0,0102	0,0363
PFM000073	Streaming Water	0,1	Surface	2002-05-06 18:35	4074	0,00207		0,00902		0,747	0,108	0,0314	0,0333	0,0612
PFM000073	Streaming Water	0,0	Surface	2002-05-13 16:30	4095	0,0292		0,02174		1,19	0,227	0,0532	0,140	0,273
PFM000073	Streaming Water	0,1	Surface	2002-11-26 08:00	4385	0,00210	0,0109	5,14000		7,98	0,0761	0,0319	0,0120	0,0554
PFM000073	Streaming Water	0,1	Surface	2002-12-18 07:30	4429	0,00358	0,00177	0,88812		1,37	0,0443	0,0111	0,00772	0,0406

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	SiO2-Si mg/L	Chlorophyll a ug/L	Chlorophyll c ug/L	Pheopigment ug/L	POC mg/L	TOC mg/L	DOC mg/L	O2 diss mg/L
PFM000072	Streaming Water	0,2	Surface	2002-05-06 12:00	4071	0,776	1,30	-0,5	-0,5	0,253	13,6	8,50	5,3
PFM000072	Streaming Water	0,5	Surface	2002-05-13 15:50	4094	2,80	2,09	-0,5	-0,5	0,361	16,0	13,7	4,3
PFM000072	Streaming Water	0,2	Surface	2002-05-27 21:00	4134	1,77	0,73	-0,5	0,83	0,396	21,6	22,6	3,1
PFM000072	Streaming Water	0,5	Surface	2002-06-10 21:00	4161	1,69	6,26	0,5	1,11	0,985	19,2	10,9	1,0
PFM000072	Streaming Water	0,5	Surface	2002-06-23 22:00	4175	0,659	0,80	-0,5	0,60	0,412	16,8	17,6	4,5
PFM000072	Streaming Water	0,2	Surface	2002-07-15 00:00	4214	1,01			1,01		19,7	18,5	3,7
PFM000072	Streaming Water	0,5	Surface	2002-08-12 20:30	4243	0,950			0,789		20,4	11,1	2,2
PFM000072	Streaming Water	0,1	Surface	2002-11-12 08:00	4345	2,02	-0,5	-0,5	-0,5	1,41	16,6	16,7	0,4
PFM000072	Streaming Water	0,1	Surface	2002-11-26 08:00	4392	1,41	0,61	-0,5	-0,5	0,471	13,9	4,07	9,5
PFM000072	Streaming Water	0,1	Surface	2002-12-18 07:30	4428	1,93	-0,5	-0,5	0,56	0,460	21,6	15,5	1,6
PFM000072	Streaming Water	0,1	Surface	2003-01-16 07:30	4458	3,26	1,10	-0,5	1,20	0,743	22,2	22,3	1,0
PFM000072	Streaming Water	0,1	Surface	2003-02-19 07:30	4504	4,29	-0,5	-0,5	-0,5	0,444	13,4	22,2	-0,2
PFM000073	Streaming Water	0,1	Surface	2002-03-18 17:40	4011	3,49					6,00	7,40	
PFM000073	Streaming Water	0,1	Surface	2002-04-02 09:20	4034	1,44				0,113	6,90	6,80	11,3
PFM000073	Streaming Water	0,1	Surface	2002-04-15 18:10	4043	0,455				0,295	5,30	5,10	12,5
PFM000073	Streaming Water	0,1	Surface	2002-05-06 18:35	4074	1,39	1,80	-0,5	1,90	0,449	9,10	8,30	9,9
PFM000073	Streaming Water	0,0	Surface	2002-05-13 16:30	4095	0,913	19,3	-0,5	9,13	1,88	11,8	14,0	8,0
PFM000073	Streaming Water	0,1	Surface	2002-11-26 08:00	4385	3,18	0,84	-0,5	0,69	0,354	8,86	3,02	9,5
PFM000073	Streaming Water	0,1	Surface	2002-12-18 07:30	4429	5,21	0,53	-0,5	0,60	0,316	6,38	6,94	8,0

- = Not analysed  
x = No result due to sampling problems  
xx = No results due to analytical problems  
- "value" = result less than detection limit

SICADA: biochemistry\_supplements, 020301-030301

**Isotopes I, compilation of H-, O-, B-, S-, Cl-, Sr- and C-isotope data**

Icode	Water type	Depth m	Info.	Date - time	Sample no.	D dev SMOW	Tr TU	O18 dev SMOW	<sup>10</sup> B/ <sup>11</sup> B	S-34 dev CDT	Cl-37 dev SMOC	<sup>87</sup> Sr/ <sup>86</sup> Sr	C-13 dev PDB	C-14 pmc	Age_BP years
PFM000074	Lake Water	0,5 Surface		2002-07-14 00:00	4202	-77,8	12,5	-9,6			0,66		-12,5	116,1	-
PFM000074	Lake Water	0,5 Surface		2002-08-11 20:00	4224	-69,7	13,7	-9,8			0,35		-11,6	115,6	-
PFM000074	Lake Water	0,5 Surface		2002-11-12 08:00	4337	-88,4	14,7	-9,2		6,6		0,722686	-8,2	118,4	-
PFM000074	Lake Water	0,5 Surface		2003-01-16 07:30	4453	-83,1	11,7	-11,8	0,24	0,2		0,719691			-
PFM000087	Lake Water	1,8 Bottom		2002-04-17 16:00	4061	-90,0	12,1	-12,0			0,22		-12,0	108,8	-
PFM000087	Lake Water	0,5 Surface		2002-04-17 16:00	4060	-88,8	12,6	-11,7			0,11		-12,0	109,1	-
PFM000087	Lake Water	0,5 Surface		2002-07-14 23:00	4200	-77,0	13,6	-9,4			0,33		-11,7	114,2	-
PFM000087	Lake Water	1,5 Bottom		2002-07-14 23:00	4201	-78,2	16,0	-9,4			0,46		-12,5	113,5	-
PFM000087	Lake Water	1,5 Bottom		2002-08-11 21:30	4222	-68,5	12,5	-9,8			0,24		-11,4	114,9	-
PFM000087	Lake Water	0,5 Surface		2002-08-11 21:30	4203	-68,6	15,6	-9,7			0,38		-11,0	113,6	-
PFM000087	Lake Water	0,5 Surface		2002-11-12 08:00	4327	-64,2	11,6	-8,3		5,5		0,723402	-9,0	113,6	-
PFM000087	Lake Water	1,5 Bottom		2002-11-12 08:00	4331	-63,5	10,4	-8,2		6,0		0,723370	-8,1	114,2	-
PFM000087	Lake Water	1,5 Bottom		2003-01-15 07:30	4449	-80,2	10,1	-11,0	0,24	-0,5		0,723063			-
PFM000087	Lake Water	0,5 Surface		2003-01-15 07:30	4442	-77,4	12,2	-10,5	0,24	-1,0		0,723649			-
PFM000097	Lake Water	0,5 Surface		2002-04-17 11:30	4056	-84,8	11,7	-10,7			0,15		-10,0	109,9	-
PFM000097	Lake Water	0,5 Surface		2002-07-15 00:00	4205	-60,6	14,1	-6,0			-0,33		-10,9	112,1	-
PFM000097	Lake Water	0,5 Surface		2002-08-12 18:05	4245	-53,4	8,2	-5,9		7,9		0,722959	-9,7	112,2	-
PFM000097	Lake Water	0,5 Surface		2003-01-15 07:30	4452	-64,4	13,9	-7,9	0,24						-
PFM000107	Lake Water	1,4 Bottom		2002-04-17 09:30	4059	-82,8	13,0	-10,8			0,08		-10,0	111,1	-
PFM000107	Lake Water	0,5 Surface		2002-04-17 09:30	4058	-82,8	12,6	-10,8			0,11		-10,0	110,7	-
PFM000107	Lake Water	0,5 Surface		2002-07-15 00:00	4206	-63,5	13,2	-6,8			-0,38		-9,9	113,8	-
PFM000107	Lake Water	1 Bottom		2002-07-15 00:00	4207	-64,3	15,6	-6,7			0,01		-9,0	113,4	-
PFM000107	Lake Water	0,5 Surface		2002-08-12 00:00	4233	-55,8	8,4	-6,3			0,06		-9,8	112,3	-
PFM000107	Lake Water	1 Bottom		2002-08-12 00:00	4234	-54,8	11,7	-6,4			0,01		-8,1	112,6	-
PFM000107	Lake Water	0,5 Surface		2002-11-12 08:00	4328	-52,3	10,4	-6,0		10,3		0,719146	-3,0	109,1	-
PFM000107	Lake Water	0,5 Surface		2003-01-16 07:30	4444	-77,4	11,5	-10,8	0,24	6,3		0,719852			-
PFM000107	Lake Water	1 Surface		2003-01-16 07:30	4447	-66,9	9,8	-8,4	0,28	6,2		0,719822			-
PFM000117	Lake Water	1,5 Bottom		2002-04-16 09:15	4049	-77,5	13,2	-9,8					-8,0	116,2	-

- = Not analysed  
x = No result due to sampling problems  
xx = No result due to analytical problems

SICADA: h\_o\_isotope, b\_s\_cl\_sr\_isotope, c\_s\_isotope 020201-030301



Icode	Water type	Depth m	Info.	Date - time	Sample no.	D dev SMOW	Tr TU	O18 dev SMOW	<sup>10</sup> B/ <sup>11</sup> B	S-34 dev CDT	Cl-37 dev SMOC	<sup>87</sup> Sr/ <sup>86</sup> Sr	C-13 dev PDB	C-14 pmc	Age_BP years
PFM000117	Lake Water	0,5 Surface		2002-04-16 09:15	4048	-77,3	12,5	-9,8					-7,0	116,3	-
PFM000117	Lake Water	0,5 Surface		2002-07-16 00:00	4217	-72,3	15,5	-7,1					-8,6	113,5	-
PFM000117	Lake Water	1,5 Bottom		2002-07-16 00:00	4218	-72,4	12,7	-7,0			-0,01		-8,3	116,2	-
PFM000117	Lake Water	0,5 Surface		2002-08-13 08:00	4235	-57,9	6,9	-6,7			-0,15		-9,0	112,9	-
PFM000117	Lake Water	1,5 Bottom		2002-08-13 08:00	4236	-57,8	8,9	-6,8					-8,8	113,2	-
PFM000117	Lake Water	0,5 Surface		2003-01-15 07:30	4440	-61,5	12,7	-7,1	0,24	3,4		0,724292			-
PFM000117	Lake Water	1,5 Surface		2003-01-15 07:30	4451	-61,8	13,5	-7,2	0,24		0,723279				-
PFM000127	Lake Water	0,5 Surface		2002-07-15 00:00	4215	-63,2	8,7	-5,0			0,18		-8,8	110,0	-
PFM000127	Lake Water	1 Bottom		2002-07-15 00:00	4216	-62,4	13,1	-8,1			-0,03		-8,3	109,7	-
PFM000127	Lake Water	0,5 Surface		2002-08-12 19:40	4232	-44,3	7,6	-4,5			-0,01		-6,0	110,8	-
PFM000127	Lake Water	1 Bottom		2002-08-12 19:40	4241	-46,3	6,1	-4,6			-0,10		-6,9	108,8	-
PFM000135	Lake Water	0,5 Surface		2003-01-15 07:30	4443	-61,9	11,6	-7,2	0,24	-0,4		0,720879			-
PFM000151	Lake Water	0,5 Surface		2002-04-16 16:31	4052	-90,4	11,3	-12,0					-14,0	109,4	-
PFM000062	Sea Water	3 Bottom		2002-07-15 13:15	4199	-67,8	17,3	-7,7			-0,39		-2,9	109,0	-
PFM000062	Sea Water	0,5 Surface		2002-07-15 13:15	4198	-66,1	10,6	-8,1			-0,35		-2,1	110,9	-
PFM000062	Sea Water	0,5 Surface		2002-08-12 09:04	4229	-64,1	15,9	-8,5			0,01		-4,0	107,6	-
PFM000062	Sea Water	3 Bottom		2002-08-12 09:04	4230	-62,4	11,7	-8,5			0,10		-3,6	108,5	-
PFM000062	Sea Water	0,5 Surface		2002-10-21 13:00	4333	-61,6	15,3	-8,2	0,192	20,8	0,18	0,709404	-3,6	109,6	-
PFM000062	Sea Water	3 Bottom		2002-10-21 13:00	4322	-61,3	15,6	-8,2	0,191	21,4	0,10	0,709485			-
PFM000063	Sea Water	4,5 Bottom		2002-07-15 14:20	4195	-65,7	17,4	-8,0			-0,24		-4,9	105,7	-
PFM000063	Sea Water	0,5 Surface		2002-07-15 14:20	4194	-65,1	17,4	-7,8			-0,05		-5,2	105,4	-
PFM000063	Sea Water	0,5 Surface		2002-08-12 10:30	4227	-61,6	18,6	-8,2			0,00		-6,1	107,8	-
PFM000063	Sea Water	4,5 Bottom		2002-08-12 10:30	4228	-62,6	18,1	-8,4			0,00		-5,0	109,1	-
PFM000063	Sea Water	4,5 Bottom		2002-10-21 13:00	4321	-61,8	16,0	-8,1	0,192	20,7	0,14	0,709418	-4,0	110,4	-
PFM000063	Sea Water	0,5 Surface		2002-10-21 13:00	4324	-61,6	17,1	-8,1	0,192	21,0	0,01	0,709486	-3,1	111,1	-
PFM000063	Sea Water	0,5 Surface		2003-01-14 07:30	4445	-60,9	13,9	-8,5	0,24	19,8		0,709507			-
PFM000063	Sea Water	1 Surface		2003-01-14 07:30	4450	-65,1	17,5	-8,5	0,24	20,0		0,709520			-

- = Not analysed

x = No result due to sampling problems

xx = No result due to analytical problems

SIcADA: h\_o\_isotope, b\_s\_cl\_sr\_isotope, c\_s\_isotope 020201-030301

Ildcode	Water type	Depth m	Info.	Date - time	Sample no.	D dev SMOW	Tr TU	O18 dev SMOW	<sup>10</sup> B/ <sup>11</sup> B	S-34 dev CDT	Ct-37 dev SMOC	<sup>87</sup> Sr/ <sup>86</sup> Sr	C-13 dev PDB	C-14 pmc	Age BP years
PFM000064	Sea Water	0,5 Surface		2002-07-15 00:00	4196	-63,7	11,6	-7,6			-0,07		-8,9	108,0	-
PFM000064	Sea Water	1 Bottom		2002-07-15 00:00	4197	-64,1	12,2	-7,6			0,01		-8,3	108,7	-
PFM000064	Sea Water	1 Bottom		2002-08-12 12:00	4226	-60,4	17,8	-8,0			0,04		-10,9	106,1	-
PFM000064	Sea Water	0,5 Surface		2002-08-12 12:00	4225	-61,5	17,0	-8,0			0,12		-10,7	107,1	-
PFM000064	Sea Water	1 Bottom		2002-10-21 13:00	4323	-60,1	15,0	-7,8	0,192	20,6	0,11	0,710708	-4,8	108,3	-
PFM000064	Sea Water	0,5 Surface		2002-10-21 13:00	4330	-60,2	14,2	-8,0	0,190	21,0	0,00	0,709535	-4,0	109,1	-
PFM000065	Sea Water	0,5 Surface		2002-07-15 00:00	4212	-72,5	14,1	-7,9			-0,39		-6,6	109,1	-
PFM000065	Sea Water	0,5 Surface		2002-08-12 12:15	4231	-60,7	11,4	-8,1			0,07		-9,4	106,6	-
PFM000065	Sea Water	0,5 Surface		2002-10-21 13:00	4325	-60,9	16,6	-8,1	0,191	21,0	-0,01	0,709510	-4,2	108,9	-
PFM000065	Sea Water	0,5 Surface		2003-01-13 08:00	4446	-67,5	12,2	-8,8	0,24	18,9		0,709700			-
PFM000082	Sea Water	6 Bottom		2002-04-16 13:30	4047	-65,1	19,3	-8,2			-0,09		-2,0	108,7	-
PFM000082	Sea Water	0,5 Surface		2002-04-16 13:30	4044	-64,5	15,9	-8,2			0,05		-3,0	109,4	-
PFM000082	Sea Water	6,5 Bottom		2003-01-13 08:00	4439	-64,1	16,6	-8,3	0,24	19,9		0,709513			-
PFM000082	Sea Water	0,5 Surface		2003-01-13 08:00	4438	-64,1	12,6	-8,3	0,24	20,2		0,709459			-
PFM000083	Sea Water	6 Bottom		2002-04-16 19:37	4054	-64,8	13,9	-8,1			0,05		-3,0	110,1	-
PFM000083	Sea Water	0,5 Surface		2002-04-16 19:37	4053	-65,1	16,1	-8,2			0,06		-3,0	110,1	-
PFM000084	Sea Water	2,5 Bottom		2002-04-17 18:30	4063	-82,4	11,7	-11,0			0,23		-15,0	95,6	310,0
PFM000084	Sea Water	0,5 Surface		2002-04-17 18:30	4062	-83,5	11,2	-11,0			0,15		-14,0	100,1	-
PFM000066	Streaming Water	0,2 Surface		2002-04-15 11:40	4045	-89,7	10,5	-12,0					-13,0	106,8	-
PFM000066	Streaming Water	0,2 Surface		2002-07-16 00:00	4208	-77,7	13,0	-9,5			0,85		-12,9	113,1	-
PFM000066	Streaming Water	0,05 Surface		2002-08-11 22:00	4223	-67,9	14,2	-9,7			0,47		-12,1	113,6	-
PFM000066	Streaming Water	0,1 Surface		2003-01-13 08:00	4454	-78,3	11,8	-11,0							-
PFM000067	Streaming Water	0,5 Surface		2002-04-17 11:00	4057	-82,9	13,0	-10,8					-9,0	111,8	-
PFM000067	Streaming Water	0,1 Surface		2002-07-15 00:00	4204	-62,6	12,2	-6,3			-0,45		-12,0	111,3	-
PFM000067	Streaming Water	0,1 Surface		2002-08-12 17:50	4242	-53,8	6,7	-6,0			-0,04		-9,4	109,7	-
PFM000067	Streaming Water	0,05 Surface		2002-10-22 07:30	4339	-50,1	14,2	-5,5	0,193	10,4	0,12	0,718665	-3,6	112,6	-
PFM000067	Streaming Water	0,1 Surface		2003-01-15 07:30	4459	-62,2	13,7	-7,4							-

- = Not analysed

x = No result due to sampling problems

xx = No result due to analytical problems

SICADA: h\_o\_isotope, b\_s\_cl\_sr\_isotope, c\_s\_isotope 020201-030301

Icode	Water type	Depth m	Info.	Date - time	Sample no.	D dev SMOW	Tr TU	O18 dev SMOW	<sup>10</sup> B/ <sup>11</sup> B	S-34 dev CDT	CI-37 dev SMOC	<sup>87</sup> Sr/ <sup>86</sup> Sr	C-13 dev PDB	C-14 pmc	Age_BP years
PFM000068	Streaming Water	0,5 Surface		2002-04-15 15:10	4046	-86,2	10,7	-11,2			0,16		-12,0	111,1	-
PFM000068	Streaming Water	0,2 Surface		2002-07-16 00:00	4213	-79,9	11,0	-8,8			0,08		-14,1	113,5	-
PFM000068	Streaming Water	0,1 Surface		2002-08-13 11:40	4238	-68,7	8,5	-9,3			-0,05		-14,3	113,6	-
PFM000068	Streaming Water	0,5 Surface		2002-10-22 07:30	4343	-73,4	12,8	-10,5	0,195	9,0	0,12	0,720582	-12,1	115,5	-
PFM000068	Streaming Water	0,1 Surface		2003-01-16 07:30	4457	-74,9	13,6	-10,0							-
PFM000069	Streaming Water	0,5 Surface		2002-04-17 13:45	4055	-91,4	10,9	-12,1			0,09		-20,0	112,8	-
PFM000069	Streaming Water	0,15 Surface		2002-07-16 00:00	4211	-85,5	11,0	-10,2			0,13		-14,2	116,1	-
PFM000069	Streaming Water	0,05 Surface		2002-08-13 11:00	4244	-71,5	10,1	-9,8			-0,03		-13,5	114,6	-
PFM000069	Streaming Water	0,05 Surface		2002-10-22 07:30	4342	-73,4	11,2	-10,3	0,196	8,9	0,09	0,720371	-11,3	116,2	-
PFM000069	Streaming Water	0,1 Surface		2003-01-16 07:30	4455	-87,4	13,9	-11,7							-
PFM000070	Streaming Water	0,1 Surface		2002-04-16 10:00	4051	-76,8		-9,7					-9,0	117,2	-
PFM000070	Streaming Water	0,2 Surface		2002-07-16 00:00	4210	-65,3	12,4	-7,1			0,51		-10,9	114,1	-
PFM000070	Streaming Water	0,05 Surface		2002-08-13 09:30	4240	-58,5	6,6	-6,9			0,35		-10,9	113,0	-
PFM000070	Streaming Water	0,1 Surface		2003-01-16 07:30	4456	-62,6	15,4	-7,4							-
PFM000071	Streaming Water	0,1 Surface		2002-04-16 11:00	4050	-93,4		-12,6					-15,0	93,3	505
PFM000071	Streaming Water	0,1 Surface		2002-07-16 00:00	4209	-86,2	11,9	-11,4			1,94		-16,3	95,5	315
PFM000071	Streaming Water	0,05 Surface		2002-08-13 09:00	4239	-78,5	5,3	-11,2			0,29		-16,1	100,8	-
PFM000071	Streaming Water	0,1 Surface		2003-01-15 07:30	4460	-86,2	13,3	-12,1							-
PFM000072	Streaming Water	0,5 Surface		2002-04-15 16:29	4042	-78,7	10,2	-10,1					-9,0	108,8	-
PFM000072	Streaming Water	0,2 Surface		2002-07-15 00:00	4214	-65,3	12,8	-5,8			0,49		-17,0	111,1	-
PFM000072	Streaming Water	0,5 Surface		2002-08-12 20:30	4243	-51,5	10,4	-5,6			-0,09		-15,1	109,6	-
PFM000072	Streaming Water	0,1 Surface		2002-11-12 08:00	4345	-63,0	12,1	-8,4		-2,1		0,720084	-19,5	109,9	-
PFM000072	Streaming Water	0,1 Surface		2003-01-16 07:30	4458	-70,6	13,8	-9,2							-
PFM000073	Streaming Water	0,1 Surface		2002-04-15 18:10	4043	-89,2	10,3	-11,9			0,06		-13,0	100,6	-

-- Not analysed

x = No result due to sampling problems

xx = No result due to analytical problems

SICADA: h\_o\_isotope, b\_s\_cl\_isotope, c\_s\_isotope 020201-030301

**Trace elements, compilation of trace metals including  
Lantanoids, Uranium and Thorium etc**

Idcode	Water type	Depth	Info.	Date - time	Sample no.	U	Th	Al	As	Sc	Cd	Cr	Cu	Co	Hg	Ni	Zn	Pb
		m				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PFM000074	Lake Water	0,50	Surface	2002-07-14 00:00	4202			4,90	0,397		0,0034	0,123	0,50	0,046	-0,002	0,564	0,780	0,043
PFM000074	Lake Water	0,50	Surface	2003-01-16 07:30	4453	2,12	-0,02	6,14		-0,05	0,0029	0,127	0,24	0,077	0,003	0,438	1,31	0,216
PFM000087	Lake Water	1,80	Bottom	2002-04-17 16:00	4061	3,47	0,021			0,016								
PFM000087	Lake Water	0,50	Surface	2002-04-17 16:00	4060	3,42	0,021			0,019								
PFM000087	Lake Water	0,50	Surface	2002-07-14 23:00	4200			2,30	0,463		0,0062	0,103	0,46	0,043	-0,002	0,493	0,740	0,037
PFM000087	Lake Water	1,50	Bottom	2002-07-14 23:00	4201			2,00	0,475		0,0159	0,105	1,42	0,051	0,007	0,522	1,99	0,088
PFM000087	Lake Water	1,50	Bottom	2002-08-11 21:30	4222			26,2				2,38		0,171		2,82	2,63	
PFM000087	Lake Water	0,50	Surface	2003-01-15 07:30	4442	3,07	-0,02	7,76		-0,05	-0,002	0,170	0,16	0,161	-0,002	0,432	0,503	0,014
PFM000087	Lake Water	1,50	Bottom	2003-01-15 07:30	4449	3,28	-0,02	6,05		-0,05	-0,002	0,165	0,33	0,165	0,002	0,448	0,804	0,0196
PFM000097	Lake Water	0,50	Surface	2002-04-17 11:30	4056	1,78	0,028	13,1		0,02		34,3		0,061		0,434	3,46	
PFM000097	Lake Water	0,50	Surface	2002-07-15 00:00	4205			10,0				0,119		0,090		0,481	0,76	
PFM000097	Lake Water	0,50	Surface	2003-01-15 07:30	4452	2,67	-0,02	9,67		-0,05	0,0026	0,157	0,58	0,075	0,014	0,436	1,52	0,0837
PFM000107	Lake Water	1,40	Bottom	2002-04-17 09:30	4059	1,72	0,036			0,016								
PFM000107	Lake Water	0,50	Surface	2002-04-17 09:30	4058	1,70	0,035	14,6		0,019		0,162		0,068		0,410	0,870	
PFM000107	Lake Water	1,00	Bottom	2002-07-15 00:00	4207			11,6				0,114		0,087		0,448	0,710	
PFM000107	Lake Water	0,50	Surface	2002-07-15 00:00	4206			11,8				0,118		0,092		0,412	0,460	
PFM000107	Lake Water	0,50	Surface	2003-01-16 07:30	4444	2,03	-0,02	9,98		-0,05	0,0101	0,127	0,56	0,052	-0,002	0,407	12,9	0,639
PFM000107	Lake Water	1,00	Bottom	2003-01-16 07:30	4447	2,36	-0,02	12,4		-0,05	0,0091	0,134	0,68	0,069	-0,002	0,435	2,12	0,256
PFM000117	Lake Water	1,50	Bottom	2002-04-16 09:15	4049	1,32	0,038			0,016								
PFM000117	Lake Water	0,50	Surface	2002-04-16 09:15	4048	1,33	0,04			0,028								
PFM000117	Lake Water	1,50	Bottom	2002-07-16 00:00	4218			4,80	0,294		0,0031	0,077	0,55	0,045	-0,002	0,235	0,470	0,048
PFM000117	Lake Water	0,50	Surface	2002-07-16 00:00	4217			5,00	0,299		0,0042	0,0900	0,56	0,045	-0,002	0,246	0,380	0,029
PFM000117	Lake Water	1,50	Bottom	2003-01-15 07:30	4451	1,27	-0,02	2,22		-0,05	-0,002	0,0707	0,43	0,040	-0,002	0,201	0,608	0,0193
PFM000117	Lake Water	0,50	Surface	2003-01-15 07:30	4440	1,30	-0,02	5,8		-0,05	0,0055	0,0696	0,42	0,039	-0,002	0,187	3,26	0,238
PFM000127	Lake Water	1,00	Bottom	2002-07-15 00:00	4216			12,6	0,48		0,0031	0,0960	0,52	0,094	-0,002	0,279	0,450	0,227
PFM000127	Lake Water	0,50	Surface	2002-07-15 00:00	4215			12,6	0,404		0,0026	0,0850	0,5	0,081	-0,002	0,200	0,440	0,176
PFM000127	Lake Water	1,00	Bottom	2002-08-12 19:40	4241			12,4				2,05		0,145		1,53	1,81	
PFM000135	Lake Water	0,50	Surface	2003-01-15 07:30	4443	1,11	-0,02	6,02		-0,05	-0,002	0,139	0,23	0,107	-0,002	0,279	0,832	0,0985
PFM000151	Lake Water	0,50	Surface	2002-04-16 16:31	4052	2,04	0,026			0,015								
PFM000062	Sea Water	0,50	Surface	2002-07-15 13:15	4198			12,9	1,3		-0,05	0,582	24,7	-0,05	-0,002	1,03	23,3	2,82
PFM000062	Sea Water	3,00	Bottom	2002-07-15 13:15	4199			5,61	2		0,391	0,575	1,41	0,050	-0,002	1,15	4,12	0,501
PFM000062	Sea Water	0,50	Surface	2002-08-12 09:04	4229	0,671	-0,1	4,28	-100	-0,01	-0,02	0,199	0,81	-0,02	-0,002	1,08	1,19	-0,1

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SICADA: trace\_elements, 020301-030301

Idcode	Water type	Depth	Info.	Date - time	Sample no.	V ug/L	Rb ug/L	Y ug/L	Zr ug/L	Mo ug/L	In ug/L	Sb ug/L	Cs ug/L	Ba ug/L	La ug/L	Hf ug/L	Tl ug/L	Ce ug/L	
PFM000074	Lake Water	0,50 Surface		2002-07-14 00:00	4202	0,167				0,376				29,1					
PFM000074	Lake Water	0,50 Surface		2003-01-16 07:30	4453	0,179	2,19	0,144	0,363	0,468		0,0674	-0,03	34,8		-0,005	-0,03	0,0880	
PFM000087	Lake Water	1,80 Bottom		2002-04-17 16:00	4061		2,09	0,203	0,296		7,52		0,0055	24,4	0,0582	0,0127	0,0048	0,0693	
PFM000087	Lake Water	0,50 Surface		2002-04-17 16:00	4060		2,07	0,198	0,306		8,11		0,0062	24,4	0,0573	0,0114	0,0043	0,0680	
PFM000087	Lake Water	0,50 Surface		2002-07-14 23:00	4200	0,156				0,510				34,6					
PFM000087	Lake Water	1,50 Bottom		2002-07-14 23:00	4201	0,172				0,489				36,4					
PFM000087	Lake Water	1,50 Bottom		2002-08-11 21:30	4222					0,430				26,3					
PFM000087	Lake Water	0,50 Surface		2003-01-15 07:30	4442	0,183	3,73	0,182	0,577	0,229		0,0919	-0,03	59,3		0,0063	-0,03	0,0756	
PFM000087	Lake Water	1,50 Bottom		2003-01-15 07:30	4449	0,211	3,37	0,195	0,599	0,291		0,0923	-0,03	63,7		0,0067	-0,03	0,0861	
PFM000097	Lake Water	0,50 Surface		2002-04-17 11:30	4056		2,93	0,266	0,302	0,462	8,72	0,0652	0,0084	14,4	0,157	0,0122	0,0060	0,2190	
PFM000097	Lake Water	0,50 Surface		2002-07-15 00:00	4205					0,933				22,6					
PFM000097	Lake Water	0,50 Surface		2003-01-15 07:30	4452	0,219	3,92	0,212	0,497	0,647		0,0968	-0,03	27,4		0,0053	-0,03	0,165	
PFM000107	Lake Water	1,40 Bottom		2002-04-17 09:30	4059		2,97	0,271	0,337		12,6		0,0081	16,3	0,161	0,0134	0,0066	0,222	
PFM000107	Lake Water	0,50 Surface		2002-04-17 09:30	4058		2,89	0,267	0,296	0,381	8,80	0,0651	0,0076	15,5	0,160	0,0125	0,0064	0,220	
PFM000107	Lake Water	1,00 Bottom		2002-07-15 00:00	4207					1,05				16,5					
PFM000107	Lake Water	0,50 Surface		2002-07-15 00:00	4206					1,01				20,7					
PFM000107	Lake Water	0,50 Surface		2003-01-16 07:30	4444	0,260	2,79	0,155	0,403	0,298		0,0857	-0,03	20,1		-0,005	-0,03	0,128	
PFM000107	Lake Water	1,00 Bottom		2003-01-16 07:30	4447	0,225	3,54	0,204	0,471	0,556		0,0937	-0,03	24,0		0,0056	-0,03	0,171	
PFM000117	Lake Water	1,50 Bottom		2002-04-16 09:15	4049		1,81	0,242	0,296		10,1		0,0060	15,7	0,100	0,0135	0,0044	0,111	
PFM000117	Lake Water	0,50 Surface		2002-04-16 09:15	4048		1,81	0,242	0,305		10,4		0,0076	17,1	0,101	0,0122	0,0042	0,110	
PFM000117	Lake Water	1,50 Bottom		2002-07-16 00:00	4218	0,228				0,250				10,6					
PFM000117	Lake Water	0,50 Surface		2002-07-16 00:00	4217	0,270				0,262				10,3					
PFM000117	Lake Water	1,50 Bottom		2003-01-15 07:30	4451	0,180	2,6	0,0846	0,289	0,235		0,0757	-0,03	21,4		-0,005	-0,03	0,0216	
PFM000117	Lake Water	0,50 Surface		2003-01-15 07:30	4440	0,194	2,69	0,0579	0,348	0,247		0,0833	-0,03	19,2		-0,005	-0,03	0,0136	
PFM000127	Lake Water	1,00 Bottom		2002-07-15 00:00	4216	0,523				0,625				16,8					
PFM000127	Lake Water	0,50 Surface		2002-07-15 00:00	4215	0,495				0,612				16,2					
PFM000127	Lake Water	1,00 Bottom		2002-08-12 19:40	4241					0,623				18,5					
PFM000135	Lake Water	0,50 Surface		2003-01-15 07:30	4443	0,216	4,45	0,099	0,377	0,294		0,0977	-0,03	37,8		-0,005	-0,03	0,0517	
PFM000151	Lake Water	0,50 Surface		2002-04-16 16:31	4052		1,7	0,179	0,281		15,6		0,0045	19,3	0,0697	0,0114	0,0053	0,0680	
PFM000062	Sea Water	0,50 Surface		2002-07-15 13:15	4198	0,138				1,80				17,4					
PFM000062	Sea Water	3,00 Bottom		2002-07-15 13:15	4199	0,0974				1,86				17,5					
PFM000062	Sea Water	0,50 Surface		2002-08-12 09:04	4229	0,154	17,5	0,0236	-10	1,83	25,5	0,134	0,0259	19,5		1,05	0,0366		

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Pr ug/L	Nd ug/L	Sm ug/L	Eu ug/L	Gd ug/L	Tb ug/L	Dy ug/L	Ho ug/L	Er ug/L	Tm ug/L	Yb ug/L	Lu ug/L	
PFM000074	Lake Water	0,50	Surface	2002-07-14 00:00	4202													
PFM000074	Lake Water	0,50	Surface	2003-01-16 07:30	4453	0,018	0,075	0,0164	-0,005	0,0157	-0,05	0,0181	-0,005	0,0132	-0,005	0,0131	-0,005	
PFM000087	Lake Water	1,80	Bottom	2002-04-17 16:00	4061	0,0187	0,085	0,0198	0,0033				0,0062	0,0200	0,0032	0,0215	0,0039	
PFM000087	Lake Water	0,50	Surface	2002-04-17 16:00	4060	0,0177	0,083	0,0191	0,0028				0,0059	0,0197	0,003	0,0216	0,0038	
PFM000087	Lake Water	0,50	Surface	2002-07-14 23:00	4200													
PFM000087	Lake Water	1,50	Bottom	2002-07-14 23:00	4201													
PFM000087	Lake Water	1,50	Bottom	2002-08-11 21:30	4222													
PFM000087	Lake Water	0,50	Surface	2003-01-15 07:30	4442	0,0142	0,06	0,0141	-0,005	0,0147	-0,05	0,0200	-0,005	0,0173	-0,005	0,018	-0,005	
PFM000087	Lake Water	1,50	Bottom	2003-01-15 07:30	4449	0,0162	0,072	0,0164	-0,005	0,0169	-0,05	0,0221	0,0052	0,0186	-0,005	0,0203	-0,005	
PFM000097	Lake Water	0,50	Surface	2002-04-17 11:30	4056	0,0422	0,169	0,0323	0,0043				0,0077	0,0241	0,0038	0,0262	0,0038	
PFM000097	Lake Water	0,50	Surface	2002-07-15 00:00	4205													
PFM000097	Lake Water	0,50	Surface	2003-01-15 07:30	4452	0,0307	0,121	0,0236	-0,005	0,0223	-0,05	0,0256	0,0053	0,0184	-0,005	0,0179	-0,005	
PFM000107	Lake Water	1,40	Bottom	2002-04-17 09:30	4059	0,042	0,167	0,0338	0,0044				0,0085	0,0252	0,0036	0,0257	0,0044	
PFM000107	Lake Water	0,50	Surface	2002-04-17 09:30	4058	0,0424	0,171	0,0344	0,0045				0,008	0,0249	0,0036	0,0252	0,0039	
PFM000107	Lake Water	1,00	Bottom	2002-07-15 00:00	4207													
PFM000107	Lake Water	0,50	Surface	2002-07-15 00:00	4206													
PFM000107	Lake Water	0,50	Surface	2003-01-16 07:30	4444	0,0236	0,09	0,0168	-0,005	0,0157	-0,05	0,0167	-0,005	0,0128	-0,005	0,0119	-0,005	
PFM000107	Lake Water	1,00	Bottom	2003-01-16 07:30	4447	0,0316	0,121	0,0238	-0,005	0,0223	-0,05	0,0245	0,0052	0,0172	-0,005	0,0178	-0,005	
PFM000117	Lake Water	1,50	Bottom	2002-04-16 09:15	4049	0,0307	0,129	0,0274	0,0044				0,0074	0,0221	0,0038	0,0258	0,0042	
PFM000117	Lake Water	0,50	Surface	2002-04-16 09:15	4048	0,0302	0,128	0,03	0,0042				0,0077	0,0229	0,0035	0,0257	0,0042	
PFM000117	Lake Water	1,50	Bottom	2002-07-16 00:00	4218													
PFM000117	Lake Water	0,50	Surface	2002-07-16 00:00	4217													
PFM000117	Lake Water	1,50	Bottom	2003-01-15 07:30	4451	0,0073	0,031	0,0075	-0,005	0,0076	-0,05	0,0095	-0,005	0,0073	-0,005	0,0084	-0,005	
PFM000117	Lake Water	0,50	Surface	2003-01-15 07:30	4440	-0,005	0,02	-0,005	-0,005	-0,005	-0,05	0,0061	-0,005	-0,005	-0,005	0,0057	-0,005	
PFM000127	Lake Water	1,00	Bottom	2002-07-15 00:00	4216													
PFM000127	Lake Water	0,50	Surface	2002-07-15 00:00	4215													
PFM000127	Lake Water	1,00	Bottom	2002-08-12 19:40	4241													
PFM000135	Lake Water	0,50	Surface	2003-01-15 07:30	4443	0,0094	0,039	0,008	-0,005	0,008	-0,05	0,0102	-0,005	0,0089	-0,005	0,0096	-0,005	
PFM000151	Lake Water	0,50	Surface	2002-04-16 16:31	4052	0,0219	0,095	0,0203	0,0036				0,006	0,0184	0,0028	0,0183	0,0031	
PFM000062	Sea Water	0,50	Surface	2002-07-15 13:15	4198													
PFM000062	Sea Water	3,00	Bottom	2002-07-15 13:15	4199													
PFM000062	Sea Water	0,50	Surface	2002-08-12 09:04	4229													

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Idcode	Water type	Depth m	Info.	Date - time	Sample no.	U ug/L	Th ug/L	Al ug/L	As ug/L	Sc ug/L	Cd ug/L	Cr ug/L	Cu ug/L	Co ug/L	Hg ug/L	Ni ug/L	Zn ug/L	Pb ug/L
PFM000062	Sea Water	3,00 Bottom		2002-08-12 09:04	4230	0,690	-0,1	2,65	-100	0,14	-0,02	0,172	0,94	0,021	-0,020	0,986	1,02	-0,1
PFM000062	Sea Water	0,50 Surface		2002-10-21 13:00	4333	0,560	-0,1	32,6	0,0094	0,0094	0,012	0,120	0,73	-0,02	-0,002	0,873	5,09	-0,05
PFM000062	Sea Water	3,00 Bottom		2002-10-21 13:00	4322	0,601	-0,1	1,89		-0,005	0,018	0,110	0,91	0,035	-0,002	0,880	4,36	0,303
PFM000063	Sea Water	0,50 Surface		2002-07-15 14:20	4194			13,6	1,2		-0,05	-0,1	-0,5	-0,05	-0,002	0,680	-2	-0,3
PFM000063	Sea Water	4,50 Bottom		2002-07-15 14:20	4195			20,7	1,4		-0,05	0,168	2,86	-0,05	-0,002	2,01	106	0,859
PFM000063	Sea Water	4,50 Bottom		2002-08-12 10:30	4228	0,604	-0,1	9,41	-100	-0,01	-0,02	0,162	0,6	0,075	-0,002	1,19	1,51	0,213
PFM000063	Sea Water	0,50 Surface		2002-08-12 10:30	4227	0,733	-0,1	6,56	-100	0,015	-0,2	0,159	0,84	0,030	-0,002	0,944	1,17	0,145
PFM000063	Sea Water	0,50 Surface		2002-10-21 13:00	4324	0,550	-0,1	1,51		-0,005	0,011	0,102	0,66	-0,02	-0,002	0,752	3,04	-0,05
PFM000063	Sea Water	4,50 Bottom		2002-10-21 13:00	4321	0,640	-0,1	1,79		-0,005	0,016	0,092	0,68	-0,02	-0,002	0,585	2,39	0,064
PFM000063	Sea Water	0,50 Surface		2003-01-14 07:30	4445	0,934	-0,1	8,01		-0,3	-0,02	0,155	1,44	0,036	-0,002	0,908	2,31	-0,1
PFM000063	Sea Water	1,00 Bottom		2003-01-14 07:30	4450	0,820	-0,1	2,75		-0,3	0,0286	0,0885	1,35	-0,02	-0,002	0,940	4,09	-0,1
PFM000064	Sea Water	1,00 Bottom		2002-07-15 00:00	4197			11,3	1,5		-0,05	0,484	0,79	0,079	-0,002	1,06	3,10	-0,3
PFM000064	Sea Water	0,50 Surface		2002-07-15 00:00	4196			12,1	1,5		-0,05	0,308	0,68	0,118	-0,002	1,11	3,00	-0,3
PFM000064	Sea Water	1,00 Bottom		2002-08-12 12:00	4226	1,22	-0,1	17,6	-100	0,018	-0,02	0,198	1,29	0,129	-0,002	1,35	1,61	0,223
PFM000064	Sea Water	0,50 Surface		2002-08-12 12:00	4225	1,20	-0,1	17,8	-100	0,0223	-0,02	0,150	1,04	0,105	-0,002	1,23	-1,19	0,197
PFM000064	Sea Water	1,00 Bottom		2002-10-21 13:00	4323	0,764	-0,1	3,32		0,0067	0,015	0,112	0,68	0,046	-0,002	1,05	4,94	-0,05
PFM000064	Sea Water	0,50 Surface		2002-10-21 13:00	4330	0,715	-0,1	8,91		-0,005	0,017	-0,05	1,2	0,058	-0,002	0,865	12,6	-0,05
PFM000065	Sea Water	0,50 Surface		2002-07-15 00:00	4212			9,46	1,6		-0,05	0,561	0,72	-0,05	-0,002	0,883	2,07	-0,3
PFM000065	Sea Water	0,50 Surface		2002-08-12 12:15	4231	1,24	-0,1	16,2	-100	-0,01	-0,02	0,212	1,29	0,096	-0,020	1,34	1,30	0,128
PFM000065	Sea Water	0,50 Surface		2002-10-21 13:00	4325	0,647	-0,1	2,67		-0,005	0,014	0,069	0,63	0,029	-0,002	0,992	1,40	-0,05
PFM000065	Sea Water	0,50 Surface		2003-01-13 08:00	4446	1,48	-0,1	19,3		-0,3	-0,02	0,335	1,83	0,109	-0,002	1,07	8,54	0,231
PFM000082	Sea Water	0,50 Surface		2002-04-16 13:30	4044	0,828	-0,02			0,015								
PFM000082	Sea Water	6,00 Bottom		2002-04-16 13:30	4047	0,745	-0,02			0,02								
PFM000082	Sea Water	0,50 Surface		2003-01-13 08:00	4438	0,826	-0,1	17,7		-0,3	-0,02	0,140	1,35	-0,02	-0,002	0,954	2,53	0,118
PFM000082	Sea Water	6,50 Bottom		2003-01-13 08:00	4439	0,909	-0,1	12,1		-0,3	-0,02	0,163	1,38	-0,02	-0,002	0,632	1,70	0,319
PFM000083	Sea Water	6,00 Bottom		2002-04-16 19:37	4054	0,721	-0,02			0,006								
PFM000083	Sea Water	0,50 Surface		2002-04-16 19:37	4053	0,754	0,021			0,014								
PFM000084	Sea Water	2,50 Bottom		2002-04-17 18:30	4063	2,43	0,141			0,068								
PFM000084	Sea Water	0,50 Surface		2002-04-17 18:30	4062	2,44	0,122			0,076								
PFM000066	Streaming Water	0,20 Surface		2002-04-15 11:40	4045	1,81	0,029			0,033								
PFM000066	Streaming Water	0,20 Surface		2002-07-16 00:00	4208			28,4				0,119		0,070		0,491	2,03	
PFM000066	Streaming Water	0,10 Surface		2003-01-13 08:00	4454			6,92			0,0035	0,129	0,72	0,212	0,002	0,517	1,48	0,0894

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SICADA: trace\_elements, 020301-030301



Idcode	Water type	Depth m	Info.	Date - time	Sample no.	V ug/L	Rb ug/L	Y ug/L	Zr ug/L	Mo ug/L	In ug/L	Sb ug/L	Cs ug/L	Ba ug/L	La ug/L	Hf ug/L	Tl ug/L	Ce ug/L
PFM000062	Sea Water	3,00	Bottom	2002-08-12 09:04	4230	0,175	17,9	0,021	-10	1,80	10,9	0,140	0,02	18,9	0,0099	0,943	0,0380	0,0131
PFM000062	Sea Water	0,50	Surface	2002-10-21 13:00	4333	0,207	17,5	0,040	0,095	1,16	19,3	0,087	0,018	13,2	0,0117	-0,005	0,0225	0,0170
PFM000062	Sea Water	3,00	Bottom	2002-10-21 13:00	4322	0,157	18,5	0,026	0,013	1,17	19,9	0,104	0,025	14,3	0,0101	-0,005	0,0705	0,0124
PFM000063	Sea Water	0,50	Surface	2002-07-15 14:20	4194	0,161				2,08				18,2				
PFM000063	Sea Water	4,50	Bottom	2002-07-15 14:20	4195	0,211				2,00				18,4				
PFM000063	Sea Water	4,50	Bottom	2002-08-12 10:30	4228	0,344	19	0,036	-10	1,91	11,8	0,136	0,023	24,1	0,0087	1,24	0,0350	0,0140
PFM000063	Sea Water	0,50	Surface	2002-08-12 10:30	4227	0,296	18,2	0,028	-10	1,89	12,0	0,139	0,023	19,9	0,0096	1,33	0,0390	0,0112
PFM000063	Sea Water	0,50	Surface	2002-10-21 13:00	4324	0,176	17,1	0,026	0,016	1,17	18,4	0,106	0,016	15,1	0,0084	-0,005	0,0385	0,0083
PFM000063	Sea Water	4,50	Bottom	2002-10-21 13:00	4321	0,193	18,2	0,031	0,045	1,53	18,8	0,089	0,031	20,4	0,0092	-0,005	0,0497	0,0117
PFM000063	Sea Water	0,50	Surface	2003-01-14 07:30	4445	0,109	17,4	0,072	0,190	1,40		0,0879	-0,1	20		-0,02	-0,1	0,0386
PFM000063	Sea Water	1,00	Bottom	2003-01-14 07:30	4450	0,157	17,9	0,0574	0,167	1,38		0,0837	-0,1	21,1		-0,02	-0,1	0,0269
PFM000064	Sea Water	1,00	Bottom	2002-07-15 00:00	4197	0,250				2,10				22				
PFM000064	Sea Water	0,50	Surface	2002-07-15 00:00	4196	0,247				2,08				21,9				
PFM000064	Sea Water	1,00	Bottom	2002-08-12 12:00	4226	0,436	16,1	0,071	-10	1,73	16,1	0,151	0,02	21,4	0,0295	1,94	0,0530	0,0356
PFM000064	Sea Water	0,50	Surface	2002-08-12 12:00	4225	0,400	15,5	0,066	-10	1,69	16,3	0,153	0,023	21,6	0,0169	2,03	0,0500	0,0273
PFM000064	Sea Water	1,00	Bottom	2002-10-21 13:00	4323	0,202	16,2	0,046	0,040	1,28	21,1	0,091	0,013	18,1	0,0287	-0,005	0,0548	0,0354
PFM000064	Sea Water	0,50	Surface	2002-10-21 13:00	4330	0,139	15,9	0,048	0,054	1,15	20,9	0,092	0,013	17,3	0,0243	-0,005	0,0269	0,0284
PFM000065	Sea Water	0,50	Surface	2002-07-15 00:00	4212	0,287				1,87				20,2				
PFM000065	Sea Water	0,50	Surface	2002-08-12 12:15	4231	0,481	15	0,070	-10	1,64	15,0	0,133	0,02	21	0,0242	1,27	0,0460	0,0274
PFM000065	Sea Water	0,50	Surface	2002-10-21 13:00	4325	0,176	17,1	0,040	0,023	1,13	18,7	0,095	0,013	16	0,0175	-0,005	0,0293	0,0208
PFM000065	Sea Water	0,50	Surface	2003-01-13 08:00	4446	0,186	9,68	0,204	0,387	0,805		0,116	-0,1	21		-0,02	-0,1	0,162
PFM000082	Sea Water	0,50	Surface	2002-04-16 13:30	4044		16,7	0,0941	0,0600		15,2		0,0356	15,8	0,0619	0,0031	0,0099	0,09
PFM000082	Sea Water	6,00	Bottom	2002-04-16 13:30	4047		16,7	0,100	0,0662		15,3		0,0351	14,7	0,0786	0,0031	0,0102	0,104
PFM000082	Sea Water	0,50	Surface	2003-01-13 08:00	4438	0,125	17,3	0,0625	0,287	1,40		0,0886	-0,1	19,1		-0,02	-0,1	-0,02
PFM000082	Sea Water	6,50	Bottom	2003-01-13 08:00	4439	0,115	17,5	0,0501	0,168	1,56		0,0738	-0,1	19,1		-0,02	-0,1	-0,02
PFM000083	Sea Water	6,00	Bottom	2002-04-16 19:37	4054		16,6	0,0803	0,0602		14,7		0,0322	14,9	0,0482	0,0022	0,0089	0,0687
PFM000083	Sea Water	0,50	Surface	2002-04-16 19:37	4053		16,9	0,114	0,0901		14,7		0,0389	15,8	0,0912	0,005	0,0103	0,138
PFM000084	Sea Water	2,50	Bottom	2002-04-17 18:30	4063		3,97	0,855	0,709		21,1		0,0413	15,4	0,898	0,033	0,0103	1,38
PFM000084	Sea Water	0,50	Surface	2002-04-17 18:30	4062		3,48	0,813	0,689		14,3		0,0332	15,2	0,840	0,0308	0,0098	1,26
PFM000066	Streaming Water	0,20	Surface	2002-04-15 11:40	4045		1,76	0,200	0,561		10,2		0,0061	19,3	0,0863	0,0228	0,0044	0,108
PFM000066	Streaming Water	0,20	Surface	2002-07-16 00:00	4208					0,404				26,9				
PFM000066	Streaming Water	0,10	Surface	2003-01-13 08:00	4454	0,179				0,486				32,4				

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SICADA: trace\_elements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Pr ug/L	Nd ug/L	Sm ug/L	Eu ug/L	Gd ug/L	Tb ug/L	Dy ug/L	Ho ug/L	Er ug/L	Tm ug/L	Yb ug/L	Lu ug/L
PFM000062	Sea Water	3,00	Bottom	2002-08-12 09:04	4230	-0,005	0,011	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000062	Sea Water	0,50	Surface	2002-10-21 13:00	4333	-0,005	0,011	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000062	Sea Water	3,00	Bottom	2002-10-21 13:00	4322	-0,005	0,01	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000063	Sea Water	0,50	Surface	2002-07-15 14:20	4194												
PFM000063	Sea Water	4,50	Bottom	2002-07-15 14:20	4195												
PFM000063	Sea Water	4,50	Bottom	2002-08-12 10:30	4228	-0,005	0,009	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000063	Sea Water	0,50	Surface	2002-08-12 10:30	4227	-0,005	0,009	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000063	Sea Water	0,50	Surface	2002-10-21 13:00	4324	-0,005	0,01	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000063	Sea Water	4,50	Bottom	2002-10-21 13:00	4321	-0,005	0,009	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000063	Sea Water	0,50	Surface	2003-01-14 07:30	4445	-0,02	0,029	-0,02	-0,02	-0,02	-0,3	-0,02	-0,02	-0,02	-0,02	-0,02	-0,02
PFM000063	Sea Water	1,00	Bottom	2003-01-14 07:30	4450	-0,02	0,02	-0,02	-0,02	-0,02	-0,3	-0,02	-0,02	-0,02	-0,02	-0,02	-0,02
PFM000064	Sea Water	1,00	Bottom	2002-07-15 00:00	4197												
PFM000064	Sea Water	0,50	Surface	2002-07-15 00:00	4196												
PFM000064	Sea Water	1,00	Bottom	2002-08-12 12:00	4226	0,0072	0,027	0,0052	-0,005	0,0054	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000064	Sea Water	0,50	Surface	2002-08-12 12:00	4225	-0,005	0,015	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000064	Sea Water	1,00	Bottom	2002-10-21 13:00	4323	0,0063	0,024	-0,005	-0,005	-0,005	-0,01	0,0056	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000064	Sea Water	0,50	Surface	2002-10-21 13:00	4330	0,0053	0,018	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000065	Sea Water	0,50	Surface	2002-07-15 00:00	4212												
PFM000065	Sea Water	0,50	Surface	2002-08-12 12:15	4231	0,0057	0,022	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000065	Sea Water	0,50	Surface	2002-10-21 13:00	4325	-0,005	0,016	-0,005	-0,005	-0,005	-0,01	-0,005	-0,005	-0,005	-0,005	-0,005	-0,005
PFM000065	Sea Water	0,50	Surface	2003-01-13 08:00	4446	0,03	0,126	-0,02	-0,02	-0,02	-0,3	-0,02	-0,02	-0,02	-0,02	-0,02	-0,02
PFM000082	Sea Water	0,50	Surface	2002-04-16 13:30	4044	0,0145	0,064	0,011	0,0013				0,0037	0,0072	0,0012	0,0076	0,0012
PFM000082	Sea Water	6,00	Bottom	2002-04-16 13:30	4047	0,0168	0,069	0,0123	0,0018				0,0035	0,0079	0,0013	0,0092	0,0027
PFM000082	Sea Water	0,50	Surface	2003-01-13 08:00	4438	-0,02	-0,02	-0,02	-0,02	-0,02	-0,3	-0,02	-0,02	-0,02	-0,02	-0,02	-0,02
PFM000082	Sea Water	6,50	Bottom	2003-01-13 08:00	4439	-0,02	-0,02	-0,02	-0,02	-0,02	-0,3	-0,02	-0,02	-0,02	-0,02	-0,02	-0,02
PFM000083	Sea Water	6,00	Bottom	2002-04-16 19:37	4054	0,0123	0,05	0,0098	-0,001				0,0031	0,0073	-0,001	0,0067	0,0012
PFM000083	Sea Water	0,50	Surface	2002-04-16 19:37	4053	0,0217	0,084	0,0163	0,0022				0,004	0,0102	0,0016	0,0095	0,0018
PFM000084	Sea Water	2,50	Bottom	2002-04-17 18:30	4063	0,206	0,78	0,147	0,0213				0,0256	0,0738	0,0106	0,0666	0,0112
PFM000084	Sea Water	0,50	Surface	2002-04-17 18:30	4062	0,19	0,717	0,135	0,0205				0,0237	0,0697	0,0099	0,0635	0,01
PFM000066	Streaming Water	0,20	Surface	2002-04-15 11:40	4045	0,0305	0,113	0,0252	0,0039				0,0064	0,0197	0,0031	0,0201	0,0034
PFM000066	Streaming Water	0,20	Surface	2002-07-16 00:00	4208												
PFM000066	Streaming Water	0,10	Surface	2003-01-13 08:00	4454												

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SICADA: trace\_elements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	U ug/L	Th ug/L	Al ug/L	As ug/L	Sc ug/L	Cd ug/L	Cr ug/L	Cu ug/L	Co ug/L	Hg ug/L	Ni ug/L	Zn ug/L	Pb ug/L
PFM000067	Streaming Water	0,10	Surface	2002-07-15 00:00	4204			11,9				0,117	0,091			0,396	0,41	
PFM000067	Streaming Water	0,05	Surface	2002-10-22 07:30	4339			5,50	0,267		0,0027	0,100	0,62	0,063	-0,002	0,434	1,28	0,104
PFM000067	Streaming Water	0,10	Surface	2003-01-15 07:30	4459			12,9			0,0026	0,227	0,90	0,138	-0,002	0,640	1,37	0,0593
PFM000068	Streaming Water	0,20	Surface	2002-07-16 00:00	4213			17,2				0,197	0,070			0,684	0,55	
PFM000068	Streaming Water	0,50	Surface	2002-10-22 07:30	4343			21,8	0,299		0,003	0,171	0,48	0,100	-0,002	0,410	2,04	0,069
PFM000068	Streaming Water	0,10	Surface	2003-01-16 07:30	4457			11,9			0,004	0,131	0,49	0,082	0,003	0,484	3,11	0,0669
PFM000069	Streaming Water	0,15	Surface	2002-07-16 00:00	4211			19,0				0,162	0,073			0,531	0,53	
PFM000069	Streaming Water	0,05	Surface	2002-10-22 07:30	4342			28,3	0,27		0,0025	0,166	0,33	0,084	-0,002	0,420	3,29	0,104
PFM000069	Streaming Water	0,10	Surface	2003-01-16 07:30	4455			21,7			-0,002	0,207	0,51	0,111	0,003	0,612	4,08	0,0683
PFM000070	Streaming Water	0,20	Surface	2002-07-16 00:00	4210			5,50				0,076	0,052			0,216	0,76	
PFM000070	Streaming Water	0,10	Surface	2003-01-16 07:30	4456			3,70			0,0021	0,0787	0,43	0,038	-0,002	0,184	1,43	0,0251
PFM000071	Streaming Water	0,10	Surface	2002-07-16 00:00	4209			31,4				0,195	0,138			1,09	0,79	
PFM000071	Streaming Water	0,10	Surface	2003-01-15 07:30	4460			9,21			0,0048	0,105	2,92	0,066	-0,002	0,689	1,10	-0,01
PFM000072	Streaming Water	0,10	Surface	2003-01-16 07:30	4458			18,9			0,0127	0,255	0,42	0,292	0,003	0,725	19,6	0,395

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SICADA: trace\_elements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	V ug/L	Rb ug/L	Y ug/L	Zr ug/L	Mo ug/L	In ug/L	Sb ug/L	Cs ug/L	Ba ug/L	La ug/L	Hf ug/L	Ti ug/L	Ce ug/L	
PFM000067	Streaming Water	0,10	Surface	2002-07-15 00:00	4204					1,01				22,6					
PFM000067	Streaming Water	0,05	Surface	2002-10-22 07:30	4339	0,319				1,04				21,6					
PFM000067	Streaming Water	0,10	Surface	2003-01-15 07:30	4459	0,276				1,21				36,2					
PFM000068	Streaming Water	0,20	Surface	2002-07-16 00:00	4213					0,349				23,6					
PFM000068	Streaming Water	0,50	Surface	2002-10-22 07:30	4343	0,240				0,348				28,4					
PFM000068	Streaming Water	0,10	Surface	2003-01-16 07:30	4457	0,205				0,245				26,6					
PFM000069	Streaming Water	0,15	Surface	2002-07-16 00:00	4211					0,362				26,4					
PFM000069	Streaming Water	0,05	Surface	2002-10-22 07:30	4342	0,235				0,261				27,2					
PFM000069	Streaming Water	0,10	Surface	2003-01-16 07:30	4455	0,219				0,128				34,6					
PFM000070	Streaming Water	0,20	Surface	2002-07-16 00:00	4210					0,221				14,4					
PFM000070	Streaming Water	0,10	Surface	2003-01-16 07:30	4456	0,217				0,239				19,1					
PFM000071	Streaming Water	0,10	Surface	2002-07-16 00:00	4209					0,914				27,9					
PFM000071	Streaming Water	0,10	Surface	2003-01-15 07:30	4460	0,353				0,925				31,0					
PFM000072	Streaming Water	0,10	Surface	2003-01-16 07:30	4458	0,601				0,250				50,7					

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SICADA: trace\_elements, 020301-030301

Idcode	Water type	Depth m	Info.	Date - time	Sample no.	Pr ug/L	Nd ug/L	Sm ug/L	Eu ug/L	Gd ug/L	Tb ug/L	Dy ug/L	Ho ug/L	Er ug/L	Tm ug/L	Yb ug/L	Lu ug/L
PFM000067	Streaming Water	0,10	Surface	2002-07-15 00:00	4204												
PFM000067	Streaming Water	0,05	Surface	2002-10-22 07:30	4339												
PFM000067	Streaming Water	0,10	Surface	2003-01-15 07:30	4459												
PFM000068	Streaming Water	0,20	Surface	2002-07-16 00:00	4213												
PFM000068	Streaming Water	0,50	Surface	2002-10-22 07:30	4343												
PFM000068	Streaming Water	0,10	Surface	2003-01-16 07:30	4457												
PFM000069	Streaming Water	0,15	Surface	2002-07-16 00:00	4211												
PFM000069	Streaming Water	0,05	Surface	2002-10-22 07:30	4342												
PFM000069	Streaming Water	0,10	Surface	2003-01-16 07:30	4455												
PFM000070	Streaming Water	0,20	Surface	2002-07-16 00:00	4210												
PFM000070	Streaming Water	0,10	Surface	2003-01-16 07:30	4456												
PFM000071	Streaming Water	0,10	Surface	2002-07-16 00:00	4209												
PFM000071	Streaming Water	0,10	Surface	2003-01-15 07:30	4460												
PFM000072	Streaming Water	0,10	Surface	2003-01-16 07:30	4458												

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SICADA: trace\_elements, 020301-030301

**Isotopes II, compilation of U-, Th-, Ra- and Rn-isotope data**

<b>Idcode</b>	<b>Water type</b>	<b>Depth m</b>	<b>Info.</b>	<b>Date - time</b>	<b>Sample</b>	<b>U238 mBq/kg</b>	<b>U235 mBq/kg</b>	<b>U234 mBq/kg</b>	<b>Th232 mBq/kg</b>	<b>Th230 mBq/kg</b>	<b>Th228 mBq/kg</b>	<b>Ra226 Bq/L</b>	<b>Ra228 Bq/L</b>	<b>Rn222 Bq/L</b>
PFM000074	Lake Water	0,5	Surface	2003-01-16 07:30	4453	70	-50	70	-50	-50	-	0,00E+00	-	6,00E-01
PFM000087	Lake Water	0,5	Surface	2003-01-15 07:30	4442	60	-50	60	-50	-50	-	5,00E-01	-	8,00E-01
PFM000087	Lake Water	1,5	Bottom	2003-01-15 07:30	4449	-50	-50	-50	-50	-50	-	1,00E-01	-	4,00E-01
PFM000097	Lake Water	0,5	Surface	2003-01-15 07:30	4452	60	-50	60	-50	-50	-	2,00E-01	-	0,00E+00
PFM000107	Lake Water	1,0	Bottom	2003-01-16 07:30	4447	-50	-50	-50	-50	-50	-	0,00E+00	-	0,00E+00
PFM000107	Lake Water	0,5	Surface	2003-01-16 07:30	4444	-50	-50	-50	-50	-50	-	0,00E+00	-	1,00E-01
PFM000117	Lake Water	1,5	Bottom	2003-01-15 07:30	4451	50	-50	50	-50	50	-	0,00E+00	-	0,00E+00
PFM000117	Lake Water	0,5	Surface	2003-01-15 07:30	4440	-50	-50	-50	-50	-50	-	2,00E-01	-	3,00E-01
PFM000135	Lake Water	0,5	Surface	2003-01-15 07:30	4443	-50	-50	-50	-50	-50	-	2,00E-01	-	3,00E-01
PFM000062	Sea Water	3,0	Bottom	2002-10-21 13:00	4322	-50	-50	-50	-50	-50	-	1,00E-01	-	1,00E-01
PFM000062	Sea Water	0,5	Surface	2002-10-21 13:00	4333	50	-50	50	-50	-50	-	-1,00E-01	-	3,00E-01
PFM000063	Sea Water	0,5	Surface	2002-10-21 13:00	4324	50	-50	50	-50	-50	-	-1,00E-01	-	1,00E-01
PFM000063	Sea Water	4,5	Bottom	2002-10-21 13:00	4321	-50	-50	-50	-50	-50	-	-	-	-
PFM000063	Sea Water	1,0	Bottom	2003-01-14 07:30	4450	-50	-50	-50	-50	-50	-	4,00E-01	-	6,00E-01
PFM000063	Sea Water	0,5	Surface	2003-01-14 07:30	4445	-50	-50	-50	-50	-50	-	1,00E-01	-	6,00E-01
PFM000064	Sea Water	0,5	Surface	2002-10-21 13:00	4330	-50	-50	-50	-50	-50	-	2,00E-01	-	2,00E-01
PFM000064	Sea Water	1,0	Bottom	2002-10-21 13:00	4323	100	-50	100	-50	100	-	-1,00E-01	-	1,00E-01
PFM000065	Sea Water	0,5	Surface	2002-10-21 13:00	4325	-50	-50	-50	-50	-50	-	1,00E-01	-	1,00E-01
PFM000065	Sea Water	0,5	Surface	2003-01-13 08:00	4446	-50	-50	-50	-50	-50	-	1,00E-01	-	3,00E-01
PFM000082	Sea Water	6,5	Bottom	2003-01-13 08:00	4439	-50	-50	-50	-50	-50	-	4,00E-01	-	6,00E-01
PFM000082	Sea Water	0,5	Surface	2003-01-13 08:00	4438	-50	-50	-50	-50	-50	-	1,00E-01	-	3,00E-01